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**Transport Economics : Depth Classification Version of CC.**  
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[A depth classification version of Colon Classification (= CC) for subjects going with the Host Subject Transport Economics is given. The methodology for the design of freely-faceted scheme for classification and the current version of the notational system of CC have been used. In designing the schedule of speciators for the different kinds of vehicles, advantage has been taken of the available depth classification versions of CC for Motor Vehicle Production Engineering, Locomotive Production Engineering, and Air-Vehicle Wing Production Engineering. It has been found convenient to deem an isolate idea denoting a "Method" as a manifestation of the fundamental category Matter—that is, to consider it as Matter (Method). A differentiated schedule of such Method Isolates, associated with each of the Energy Isolates, is given. A problem in this connection is also mentioned. In Industrial Economics, the (IN) for the Industry Isolate in the Personality facet is at present constructed using the Subject Device. This adds two to three digits to the (IN). The method of constructing the Industry Isolate number suggested in this paper using the Subject Device only partially is more economical. The use of devices—such as, Alphabetical Device, Numerical Device, Environment Device, Subject Device, and "Divide like" Device—has helped in achieving economy in schedule building as well as in conforming to the Canons of Helpful Sequence, Consistent Sequence, and Scheduled Mnemonics. An Alphabetical Index to the schedules and a list of thirty-seven examples classified according to the scheme for classification are given].

## ABBREVIATIONS USED

(A1) = Array of Order 1	(HS) = Host Subject
(A2) = Array of Order 2	(IN) = Isolate Number
(AD) = Alphabetical Device	(M) = Matter
(BS) = Basic Subject	(IP1) = Personality Isolate, Round 1, Level 1
CC = Colon Classification	(T) = Telescoping
(E) = Energy	

**0 Scope of the Paper**

This paper demonstrates a method of constructing a depth classification version of CC for subjects going with the (HS) Transport Economics. The guiding principles and methodology for the design and development of a freely-faceted scheme for classification (3, 9, 10) has been used.

**1 Source of Isolates**

General encyclopaedias, a few specialised monographs on transport economics, and about five hundred micro documents were scanned to select the isolates for enumeration in the schedules. This also helped in structuring the subject in a helpful way.

**2/3 DESIGN OF SCHEME****2 Host Subject and Isolates****21 HOST SUBJECT**

The subject Transport Economics is deemed to go with the (BS) Industrial Economics. "Transport" is an isolate in (IP1). Thus, Transport Economics may be represented by the following (HS):

Industrial Economics (BS), Transport [IP1]

**21 SCHEDULE OF (IP1)**

The schedule of (IP1) consists of a number of speciators derived on the basis of different quasi-isolates. A combination of one or more of the speciators with the Isolate Idea "Transport" (Lamination of Kind 2) gives Compound Isolates representing different varieties of transport as a whole.

**22 SEQUENCE OF SPECIATORS IN (IP1)****221 Grouping of Quasi Isolates**

Application of Group Strategy (2) gave two main groups of quasi-isolates:

- 1 Those associated with the entity to be transported; and
- 2 Those associated with the carrier system.

A study of the subject indicated that the choice of the particular kind of transport system is dependent upon the attributes

of the entity to be transported. Therefore, applying the Wall-Picture Principle, we can say that the concept behind the "Carrier system" will not become operative unless the concept behind the "Entity to be transported" is conceded. Thus, in the facet structure, the speciators associated with the Entity to be Transported are enumerated first followed by those associated with the Carrier System.

### 222 Sequence of Speciators

The quasi isolates falling within each of the two main groups mentioned above, were further grouped using Group Strategy. The resulting sequence of all the quasi isolates more or less conforms to the Wall-Picture Principle. Hence, all the speciators derived on the basis of the different quasi isolates could be arranged in a more or less helpful way. A list of the quasi isolates in (1P1) is given in Col (c) of Table 1 in Sec 223. The status — coordinate and subordinate — of the quasi isolates is indicated by appropriate indention.

223 TABLE 1. *Quasi-isolates in (1P1)*

SN	Sector (S-)	Quasi-isolates
(a)	(b)	(c)
1-29		By Purpose
		By attributes of entity for transport
1-10		By Attributes of passenger
1	V	By Category
2	S	By Residence
3	R	By Personal transport facility
4	Q	By Distance from residence
5	P	By Class of travel
6	N	By Number of passengers
7	J,K	By Destination
8	G	By Distance to be covered
9	E	By Frequency of travel
10	C	By Stage of travel
11-24		By Attributes of goods
11	9( )	By Kind of commodity
12	9X	By Gross form or state
13	9N to 9U	By Special property
14-15		By Classification
14	9J	By Industrial classification
15	9B	By Administrative classification
16-17		By Shape
16	901	By Overall shape
17	9z1	By Micro shape
18-20		By Bulk
18	9y	By Number of units

SN	Sector (S-)	Quasi-isolates
(a)	(b)	(c)
19	9x	By Weight
20	9v	By Volume
21	9s	By Destination
22	9r	By Length of haul
23	9q	By Frequency of shipment
24	9p	By Stage of movement
25-29		By Area to be served
25	9j	By Type of population cluster
26	9f	By Kind of market/area
27	9d	By Size of population
28	9c	By Traffic density
29	9b	By Economy of area
30-79		By Attributes of carrier system
30	1	By Mode of transport
31	0( )	By Name of service (Brand)
32	0F to 0R	By Dominant service/Use
33	0B to 0D	By Number of carriers
34	09T to 09X	By Distance covered
35	09M to 09R	By Frequency of service
36	09a	By Facility of service
37-41		By Attributes of line/route
37	0l	By Type/status
38	0y	By Physical environment
39	0x	By Continuity
40	0v	By Route width
41	0t	By Restriction of route
42	0r	By Special service
43	0p	By Regularity
44	0m	By Contract
45-49		By Organisation and management
45-46		By Ownership and control
45	0j	By Entity owned
46	0h	By kind of owner
47-49		By Finance
47	0g	By Capital investment
48	0e,0f	By Source of finance
49	0c	By Movement cost per unit
50-55		By Attributes of carrier
50	z(1)	By Kind of carrier
(Differentiated quasi-isolates for "Motor vehicle")		
51	Zj	By Mean maximum speed
52	X	By Kind of engine
53	E	By Fuel
(Differentiated quasi-isolates for "Railway train")		
51	Zg to Zu	By Gauge
52	V	By Mean maximum speed
53	C	By Kind of engine

SN	Sector (S-)	Quasi-isolates
(a)	(b)	(c)
54	9M	By Fuel
		(Differentiated quasi-isolates for " Air Vehicle")
51	G	By Take off/Landing mode
52	D	By Speed
53	B	By Altitude
54-55		By Propulsion system
54	1	By Kind of engine
55	z1	By Number of engines
56	zr	By Class provided
57	zm	By Size of carrier
58-60		By Capacity
58	zj	By Number of units carried
59	zg	By Weight
60	ze	By Volume
61	zb	By Length of run
62-79		By Facility in carrier
62	fH	By Light
63	f1	By Safety provision
64	e	By Safety device
65	dT	By Special provision
66-67		By Food/Beverage service
66	dR	By Baggage accommodation
67	dM	By Position
68	dC	By Fixity
69	cB	By Capacity
70	c8	By Passenger accommodation
71	c4	By Climatic control
72	c3	By Heating
73	b8	By Ventilation
74	b7	By Telecommunication system
75	b6	By Entertainment
76	b5	By Audiovisual accessory
77	b3	By Interior trimmign
78	b2	By Sanitary facility
79	b1	By Housekeeping facility
		By Executive facility

### 23 SELECTED SPECIATORS FOR CARRIER

In designing the present schedule, advantage has been taken of the available schedules for Production Engineering of Motor Vehicle (3), Locomotive Production Engineering (1), and Air Vehicle Wing Production (4). Thus, in the schedules for Transport Economics, only the frequently occurring quasi-isolates, for deriving speciators for "Carrier", have been enumerated.

However, any of the other appropriate quasi-isolates from the schedules for the subjects mentioned above can be used without difficulty in the present schedule.

**24 MILITARY TRANSPORT EXCLUDED**

Military Transport Economics is not covered by the scheme for classification presented in this paper.

**3 Other Facets**

**31 SCHEDULE OF (1M) ISOLATES**

The (1M) isolates may be grouped into the following kinds of Matter Property isolates

Function	Rate
Restriction	Customer-carrier relation
Service	Management factors

Each of these isolates have been subdivided on the basis different characteristics as found necessary from a study of the subject. For example, "Rate for Passenger" has been subdivided using the following characteristics:

Type of carrier/line	Distance and locality
Category of passenger	Time of journey
Class of travel	Frequency of travel

Similarly, "Luggage rate" has been subdivided using the following characteristics:

Type of carrier/line	Location in vehicle
Whether owner accompanied	Class of travel
Kind of luggage	Speed of transport

**32 SCHEDULE OF (E) ISOLATES**

The (E) isolates are largely from the schedule of Common Energy Isolates given in CC, Ed 6.

**33 SCHEDULE FOR (2M)**

The schedule for (2M) consists mainly of Method Isolates and Speciators for each of them. It will be noted that a Method Isolate is deemed to be a manifestation of the Fundamental Category "Matter".

**4 Problem**

In many a case there is no named method associated with the (E) isolates, such as "Determination", "Estimation", "Analysis" and "Evaluation". A method, in the present context, usually consists of using several factors or variables involved in determining, estimating, analysing or evaluating, as the case may be, a particular attribute mentioned in the earlier round of

the subject structure. Therefore, a generic isolate name, such as "Method for costing" and "Method for Market Share Analysis" has been used. The factors or variables used in the method are deemed as Speciators. Thus, we get compound isolates, such as "Method using Peak-off differential and underpricing", and "Method using Weight-distance factor". The result of structuring the subject in this way is fairly satisfactory. However, more elegant ways of classifying such subjects should be investigated.

## 5 Notation

### 51 GENERAL

The current version (7) of the notational system of CC has been used. The appropriate guiding principles (3) have been conformed to as best as possible. Use has been made of devices such as Environment Device, Numerical Device, Alphabetical Device, Subject Device, and Mnemonic Device, wherever possible. This has helped in securing economy in schedule building, and in conforming to the Canons of Helpful Sequence, Consistent Sequence, Relevant Sequence, and Mnemonics. The Sectors assigned to the quasi isolates in (1P1) are mentioned in col (b) of Table 1 in Sec 223.

### 52 INDUSTRY ISOLATE

The Industry Isolates in (1P1) for the (BS) Industrial Economics are prescribed to be derived by (SD) (6). An examination of a number of Industry Isolates occurring in (1P1) for the (BS) Industrial Economics indicated that in almost all the cases the packeted subject consists of either a (BS) alone or a (BS) with a (1P1) isolate only. Therefore, it is suggested that the

1 Starter and arrester used in (SD) may be omitted for the Industry Isolate; and

2 If a (1P1) isolate occurs in the subject forming the Industry Isolate, the comma (,) prefixed to the isolate may be omitted, attaching the isolate to the (BS) directly.

*Example :*

Subject	Class Number	
	At present	Suggested
Transport industry	XX,(D7,4)	XX,D74
Motor vehicle industry	XX,(D841,5)	XX,D8415
Iron industry	XX,(F8,182)	XX,F8182
Agricultural industry	XX,(J)	XX,J
Rice (agriculture) industry	XX,(J,381)	XX,J381

This would save three digits in the number for the Industry Isolate wherever it consists of a (BS) and a (IP1) isolate. Where it consists of only a (BS), then at least two digits — starter and arrester — can be saved.

### 53 (IN) FOR CARRIER

In Sec 23 it has been mentioned that the speciators for carrier have been chosen from the depth versions of CC for Production Engineering of Motor Vehicle, Locomotive Production engineering, and Air Vehicle Wing Production. For the few oft-occurring speciators given in the present schedule the notation used in the above-mentioned depth versions has been retained more or less without change. The Sector (S — z( )) has been assigned to the isolate Carrier. The isolates representing different kinds of carriers together with their respective speciators are placed within the brackets in "z( )". This would enable the use of any speciator, if necessary, from these depth versions, without disturbing the notation assigned to the quasi isolates in the present schedule.

## 6 Index to Schedule

*Note.*— 1 The terms enumerated in the schedules in Sec 7 are listed in this index. However, terms denoting ideas the numbers for which are indicated to be derived by using such devices as (AD), (ND), (SD), and "Divide as" are not included.

2 The number from the schedule given against each index entry is preceded by an abbreviation for the name of the appropriate fundamental category — for example (IP1), (IM), (E), and (2M).

2 ft gauge (IP1), Zh	Air
2 ft 6 in gauge (IP1), Zj	breathing engine (IP1), 11
3 ft gauge (IP1), Zk	conditioned
3 ft 3-37 in gauge (IP1), Zm	class (IP1), zr3
3 ft 6 in gauge (IP1), Zp	comfort (IP1), c83
4 ft 6 in gauge (IP1), Zr	cushion vehicle (IP1), 4X
4 ft 8-5 in gauge (IP1), Zs	lift rate (IM), 6zp
5 ft 6 in gauge (IP1), Zt	vehicle (IP1), 8
Abandonment (IM), 885	Aircraft (IP1), 8
Abnormal traffic (IP1), 9cE	Airway (IP1), 8
Accident	Altered route (IP1), 0m8
<i>irt</i> Service (IM), 5N	Altitude <i>irt</i> Aircraft (IP1), B
potential (2M), ze	Analysis (IE), f3
Accommodation (IM), 371	Animal
Additional charge	other <i>irt</i> carrier (IP1), 298
<i>irt</i> Goods (IM), 6V	Pack (IP1), 2
Administrative classif (QI)	Annual travel (IP1), E1
<i>irt</i> Goods (IP1), 9B	Antiburst door lock (IP1), f15
Agency service (IP1), 098	Antifreeze, Fuel with (IP1), E01



- Area**  
 Kind of (QI) (IP1), 9f  
 Other (IP1), 9( )  
 served (QI) (IP1), 9aZ  
   Economy of (QI) (IP1), 9b  
   service analysis (2M), 7  
   Shape of (2M), zg  
   survey method (2M), 7  
**Arrival** (1M), 3I  
**Arriving passenger** (IP1), C1  
**Attache case** (1M), 66m  
**Attributes of**  
   area served (QI) (IP1), 9aZ  
   carrier (QI) (IP1), aZ  
   system (QI) (IP1), aY  
   entity for transport (QI) (IP1), 9mY  
   goods (QI) (IP1), 9mZ  
   line (QI) (IP1), 0sZ  
   market served (QI) (IP1), 9aZ  
   passenger (QI) (IP1), AZ  
**Audiovisual accessory** (IP1), b6  
**Autobahn** (IP1), 25  
**Automobile-railway**  
   combination (2M), zs1  
**Autorickshaw** (IP1), 4G  
**Autostrade** (IP1), 26  
  
**Baby**  
   care (1M), 377  
   Provision for (IP1), e5  
**Bad road irt Service** (1M), 5D  
**Baggage**  
   accommodation (IP1), d  
   Kind of (QI) (1M), 66  
   rate (1M), 62  
   (2M), z62  
**Bar** (IP1), dT8  
**Barge** (IP1), 5J5  
**Bath** (IP1), b35  
**Beaching sand** (1M), 3483  
**Bedding** (1M), 66g  
**Better vision** (IP1), f1M  
**Beverage and food service**  
   (QI) (IP1), dT  
**Blanket rate** (1M), 6j3  
**Boat** (IP1), 65  
**Bonus to captain** (1M), 6X7  
**Border regulation** (IP1), 093  
**Box** (1M), 66c  
**Bandg** (QI) (IP1), 0( )  
**Brrig boat** (IP1), 554  
**Bulk** (IP1), 9u  
   irt Restriction (1M), 4312  
   rate for goods (1M), 6L1  
   transport (IP1), OR  
**Bull** (IP1), 3I  
  
**Bullskin boat** (IP1), 545  
**Buffalo** (IP1), 2I  
**Bumper** (IP1), f1K  
**Bundle** (1M), 66p  
**Bus** (IP1), 4C  
**Business**  
   area (IP1), 9f 5  
   body irt Ownership (IP1), 0h68  
  
**Cabin**  
   irt Baggage (IP1), dRE  
   Rate for (1M), 69C  
   reservation charge (1M), 69F3  
**Calculation** (1E), b1  
**Camel** (IP1), 26  
**Capacity**  
   irt Baggage (IP1), dC  
   (QI) (IP1), zdZ  
**Capital** (QI) (IP1), 0g  
**Car-saturated household** (IP1), R8  
**Care and facility** (1M), 37  
**Cargo transport** (IP1), 0H  
**Carpet** (IP1), b54  
**Carriage reservation charge**  
   (1M), 69F7  
**Carrier**  
   Attributes of (QI) (IP1), aZ  
   capacity (2M), zk  
   Facility in (QI) (IP1), b  
   Making up of irt Rate (1M), 6X3  
   (QI) (IP1), z( )  
   Replacement of (IP1), 09k  
   Size of (QI) (IP1), zm  
   system, Attributes of (QI) (IP1), ar  
**Carriers, Number of** (QI) (IP1), OAZ  
**Category of passenger** (QI)  
   irt Rate (1M), 60  
   (IP1), V  
**Central government**  
   ownership (IP1), 0h31  
**Chair** (IP1), 34  
**Channel transport** (IP1), 52  
**Charging, Point of** (QI)  
   irt Goods (1M), N  
**Chariot** (IP1), 413  
**Charitable institution irt**  
   Ownership (IP1), 0h66  
**Charter charge** (1M), 69G  
**Chartered**  
   rate (1M), 6j35  
   vehicle (IP1), 0m3  
**Chemical rocket engine** (IP1), 1K  
**Child**  
   as passenger (IP1), VG  
   Provision for (IP1), e7

- Chord line (1P1), 085  
 CIF (1M), 6N15  
 Cinema (1P1), b75  
 City (1P1), 9j5  
 Civilian transport (1P1), 0M  
 Class of travel  
   *irt* Passenger rate (1M), 6z0  
   (Q1) *irt*  
     Baggage rate (1M), 64  
     Passenger (1P1), P  
     Vehicle (1P1), zr  
 Classification  
   (1M), 82  
   *irt* Goods (1P1), 9AZ  
 Classified route (1P1), 23  
 Climatic control (Q1) (1P1), c8  
 Clothing as baggage (1M), 66x  
 Coach (1P1), 415  
 Coal  
   *irt* Railway train (1P1), 9M11  
   slurry *irt* Railway train  
     (1P1), 9M12  
 Coastal  
   vessel (1P1), 5D  
   waterway (1P1), 551  
 Cold *irt* Service (1M), 53  
 Collier (1P1), 5M3  
 Commercial area (1P1), af5  
 Commodity  
   classification (2M), zb  
   *irt* Discrimination (2M), zr2  
   Kind of (Q1) (1P1), 9(0)  
 Common  
   itinerary planning (1P1), 097  
   regulation (1P1), 092  
   route *irt* Rate (1M), 6zb  
 Community impact (2M), zp  
 Commuting (1P1), 0G  
 Company  
   *irt* Ownership (1P1), 0h51  
   merchandise (SpC), f5  
 Compartment reservation  
   charge (1M), 69F5  
 Compounded helicopter (1P1), G51  
 Concessional service (1P1), 0m6  
 Consignee status (1M), 6D  
 Consignor status (1M), 6D  
 Containerisation (1P1), 09J  
 Continuity (Q1) (1P1), 0x  
 Continuous line (1P1), 0x1  
 Contract  
   (Q1) (1P1), 0m  
   rate (1M), 6j35  
 Contractual (1P1), 0m1  
 Control and ownership  
   (1P1), 0gZ  
 Conurban (1P1), 9j1  
 Convenience (Q1) (1P1), 09aZ  
 Convenient regulations (1P1), 091  
 Conventional take-off (1P1), G1  
 Cooking facility (1P1), b23  
 Coordination (1P1), 83  
 Coracle (1P1), 53  
 Cornering light (1P1), fHB  
 Correspondence cost (1M), 6Vd  
 Corrosive goods (1P1), 9Q  
 Cost (1M), 6  
   per unit (Q1) (1P1), 0c  
   price (1M), 6h  
 Costing method (2M), 3  
 Costly area (1P1), 9b6  
 Country cart (1P1), 43  
 Country season ticket (1M), 6n2  
 Coupe (1P1), zrE  
   rate (1M), 69E  
   reservation charge (1M), 69F4  
 Custom duty (1M), 6XC  
 Customer-carrier relation (1M), 7  
 Customs  
   charges (1M), 6XB  
   formalities (1P1), 094  
 Cycle (1P1), 48  
 Daily  
   service (1P1), 09R  
   travel (1P1), E7  
 Damage (1M), 94  
 Dance entertainment (1P1), b77  
 Dangerous goods (1P1), 9N  
 Date *irt* Parking (1M), 453  
 Day time travel (1M), 6r1  
 Dead freight (1M), 6L7  
 Deficiency (1M), 94  
 Defrosting (1P1), c41  
 Deliquescent goods (1P1), 97  
 Delivery charge (1M), 6X2  
 Demand  
   for travel (1M), 71  
   scheduled service (1P1), 0m2  
 Demurrage (1M), 6Vs  
 Departing passenger (1P1), C5  
 Departure (1M), 32  
 Depreciation (1M), 884  
 Destination (Q1) *irt*  
   Goods (1P1), 9s  
   Passenger (1P1), J  
 Designing (1E), b2  
 Detachable accommodation  
   *irt* Baggage (1P1), dM6  
 Determination (1E), b1  
 Dictaphone (1P1), b18  
 Diesel  
   engine *irt*  
     Motor vehicle (1P1), X2

- Railway train (1P1), S2  
 Oil *irt*  
   Motor vehicle (1P1), EG  
   Railway train (1P1), 9M6  
 Difficult start *irt*  
   Service (1M), 5B  
 Dining car service (1P1), dT5  
 Direct jet lift (1P1), GB  
 Direction restriction (1M), 414  
 Discontinuous line (1P1), 0x4  
 Discrimination with other  
   modes (2M), zm  
 Discriminatory service (2M), zn  
 Disembarkation formality (1P1), 096  
 Distance  
   covered (Q1) (1P1), 09SZ  
   from residence (Q1) (1P1), Q  
   (Q1) *irt*  
     Passenger travel (1P1), G  
     Rate (1M), 6zaZ  
 Distribution (1M), 84  
 District season ticket (1M), 6n2  
 Diversion line (1P1), 088  
 Dock *irt* Ownership (1P1), 0j8  
 Dog (1P1), 292  
 Doly (1P1), 35  
 Domestic market (1P1), 9f1  
 Dominant service (Q1) (1P1), 0EZ  
 Donkey (1P1), 23  
 Door *irt* Air ducting (1P1), c382  
 Door-to-door service (1P1), 09u  
 Dragging (1P1), 312  
 Dress (1M), 66x  
 Dual fuel (1P1), E2  
 Dugout (1P1), 551  
  
 Economy of area served  
   (Q1) ((1P1), 9b  
 Efflorescent goods (1P1), 9U  
 Electrical engine *irt*  
   Motor vehicle (1P1), X6  
   Railway train (1P1), S6  
 Electromag propulsion (1P1), 1P  
 Elephant (1P1) 27  
 Emergency (1P1), OrJ  
 Embarkation formality (1P1), 096  
 Emergency stop (1M), 348  
 Emigrant (1P1), VP  
 Engine (Q1) *irt*  
   Motor vehicle (1P1), X  
   Railway train (1P1), S  
 Engineless aircraft (1P1), z  
 Engines, Number of (Q1) *irt*  
   Aircraft (1P1), z  
 Entertainment  
   (1M), 374  
   (1P1), b7  
  
 Entity  
   for transport (Q1) (1P1), 9mr  
   owned (Q1) (1P1), Oj  
 Entrance restriction (1M), 481  
 Environment  
   *irt* Damage (1M), 940Z  
   Physical (Q1) (1P1), 0y  
   (Q1) *irt* Service (1M), 50Z  
 Equalisation factor (2M), zr  
 Estimation (1E), b6  
 Evaluation (1E), g  
 Evaporative goods (1P1), 9S  
 Exbargo rate (1M), 6N6  
 Exceptional stop (1M), 343  
 Excess distance, Rate for  
   (1M), 6j22  
 Excursion (1P1), Or3  
 Executive facility (Q1) (1P1), b1  
 Exemption from minimum  
   rate (1M), 6S4  
 Ex-godown rate (1M), 6N2  
 Exhibition, Travel to (1P1), K5  
   *irt* Rate (1M), 6s5  
 Exit restriction (1M), 485  
 Experiment (1E), f3  
 Explosive goods (1P1), 9R  
 Ex-port rate (1M), 6N5  
 Express service (1P1), OX  
 Ex-station rate (1M), 6N3  
  
 Facility  
   cost (2M), zm  
   in carrier (Q1) (1P1), b  
   *irt* Transport system (Q1)  
     (1P1), 09aZ  
 Fair (1P1), K45  
   return (2M), z3  
   Travel to *irt* Rate (1M), 6s45  
   value (2M), z2  
 Family travel (1P1), NC  
 Fast transport *irt*  
   Baggage rate (1M), 63D  
 Federal government owner  
   (1P1), 0h31  
 Feeder  
   line (1P1), 083  
   route length (2M), zj  
 Felt underlay (1P1), b53  
 Ferry (1P1), 5J7  
 FIC (1M), 6N13  
 Finance (Q1) (1P1), 0bZ  
   Source of (Q1) (1P1), 0dZ  
 Financial function (1M), 36  
 Finished goods (SpC), c  
 First class (1P1), zrF  
 Fixed  
   amount (1M), 6j1

- accommodation for baggage
  - (1P1), dM1
  - rate (1M), 6j
- Fixity *irt* Baggage accommodation (1P1), dM
- Flatboat (1P1), 552
- FOB (1M), 6N11
- Fog
  - irt* Service (1M), 51
  - light (1P1), fHE
- Food and beverage service (Q1) (1P1), dT
  - service (1P1), dT3
  - supply (1M), 373
- For (1M), 6N12
- Foreign ownership (1P1), 0h55
- Foreigner as passenger (1P1), VR
- Form of goods (Q1) (1P1), 9X
- Fortnightly travel (1P1), E4
- Four engine *irt* Aircraft (1P1), Z4
- Fragmentary network (1P1), 0x6
- Free
  - service (1P1), 0m7
  - transport (1M), 69p
  - trip (1M), 69R
- Freight service (1P1), 0H
- Freightway train, Substitution of (1P1), 09q
- Frequency of
  - call (2M), zj
  - service (1P1), 09KZ
  - shipment (1P1), 9q
  - travel *irt*
    - Passenger (Q1) (1P1), E
    - Rate (1M), 6mZ
- Fresh air admittance (1P1), c31
- Front *irt* Baggage accommodation (1P1), dR1
- Fuel
  - cost (2M), zv5
  - (Q1) *irt*
    - Motor vehicle (1P1), E
    - Railway train (1P1), 9M
- Full pressurisation (1P1), c872
- Function (1M), 3
- Gale *irt* Service (1M), 68
- Galley (1P1), 58
- Games, Facility for (1P1), b71
- Gas (1P1), 9X8
  - turbine *irt*
    - Aircraft (1P1), 158
    - Motor vehicle (1P1), X5
    - Railway train (1P1), S5
- Gaseous fuel *irt*
  - Motor vehicle (1P1), ES
- Gasolene
  - engine *irt*
    - Motor vehicle (1P1), X1
    - Railway train (1P1), S1
  - irt* Motor vehicle (1P1), EE
  - Railway train (1P1), 9M52
- Gauge (Q1) (1P1), ZfZ
- Generating speed (2M), zc
- Geographic location *irt*
  - Area served (2M), zk
  - Gokstad (1P1), 5B1
  - Gondola (1P1), 558
- Goods
  - Attributes of (Q1) (1P1), 9mZ
  - Kind of (Q1) (1P1), 9(0)
  - (Q1) *irt* Restriction (1M), 43
  - rate (1M), 6B
    - (2M), z63
  - traffic pattern (2M), zn2
  - transport (1P1), 9n
- Government
  - associated body *irt* Ownership (1P1), 0h37
    - ownership (1P1), 0h3
  - Gross cost (1M), 6b
  - Group rate for goods (1M), 6L2
- Hackney (1P1), 46
- Handbag (1M), 66u
- Harbour craft (1P1), 5J
- Hail *irt* Service (1M), 54
- Haul, Length of (Q1) (1P1), 9r
- Haze *irt* Service (1M), 51
- Headlight (1P1), fH1
- Heating
  - (1P1), c44
  - (Q1) (1P1), c4
- Heavy diesel oil
  - irt* Motor vehicle (1P1), EG3
- Helicopter (1P1), G3
- Heptane *irt* Motor vehicle (1P1), EB7
- Hexane *irt* Motor vehicle (1P1), EB6
- High
  - altitude *irt* Aircraft (1P1), BD
  - density traffic (1P1), 9cD
  - frequency service (1P1), 09P
  - movement cost (1P1), 0cD
    - speed *irt*
      - Motor vehicle (1P1), ZjE
      - Railway train (1P1), VD
    - supersonic speed (1P1), DF
    - value goods (1M), 6ED
  - Hight of vehicle *irt*
    - Restriction (1M), 4163
  - Highway transport (1P1), 21

- Hire rate (1M), bj4  
 Hired (1P1), 0m5  
 Holiday  
   rate (1M), 6r4  
   season  
     rate (1M), 6r6  
     service (1P1), 0rG  
 Hood for air ducting (1P1), c381  
 Horse (1P1), 22  
 Hospital area *irt*  
   Traffic noise (1M), 464  
 Hot  
   air heating (1P1), c48  
   water heating (1P1), c45  
 Household goods (SpC), g  
 Housekeeping facility (Q1) (1P1), b2  
 Hovercraft (1P1), 4X  
 Human *irt* Carrier (1P1), 3  
 Hygiene (1M), 375  
 Hypersonic speed (1P1), DG  
  
 Inadequacy (1M), 94  
 Incorporated body *irt*  
   Ownership (1P1), 0h5  
 Individual ownership (1P1), 0h1  
 Independent body *irt*  
   Ownership (1P1), 0hG  
 Industrial  
   area (1P1), 9fA  
   classification (Q1) (1P1), 9J  
   products (SpC), f  
 Inflammable goods (1P1), 9P  
 Inland waterway (1P1), 51  
 Inspection (1M), 35  
   charge (1M), 6XM  
   Convenience in (1P1), D95  
 Insurance  
   charge *irt* Goods (1M), 6Vj  
   coverage (1P1), 09s8  
 Inter  
   city line (1P1), 035  
   continental line (1P1), 023  
   country line (1P1), 021  
   district line (1P1), 034  
   island line (1P1), 056  
   state line (1P1), 031  
 Interchange of merchandise  
   (1P1), 09g  
 Interior trimming (Q1) (1P1), b5  
 Intermediate class  
   (1P1), zrJ  
 Internal  
   combustion engine *irt*  
     Aircraft (1P1), 1  
     light (1P1), fHM  
 International  
   body *irt* Ownership  
     (1P1), 0h7  
     line (1P1), 02  
     route *irt* Rate (1M), 6zc  
 In-transit facility (Q1) *irt*  
   Goods rate (1M), 6G  
 Intra  
   coastal line (1P1), 051  
   island line (1P1), 055  
   ocean line (1P1), 05  
   regional line (1P1), 052  
 Inverted pot (1P1), 52  
 Irregular  
   service (1P1), 0p4  
   stop (1M), 346  
 Itinerary planning facility  
   (1P1), 097  
  
 Jangada (1P1), 511  
 Jet engine *irt* Aircraft  
   (1P1), 17  
 Joint stock company *irt*  
   Ownership (1P1), 0h51  
  
 Kattamaran (1P1), 51  
 Kayak (1P1), 542  
 Kerosene *irt*  
   Motor vehicle (1P1), EF  
   Railway train (1P1), 9M55  
 Knit-weave vinyl *irt*  
   Interior trimming (1P1), b5F  
  
 Lake (1P1), 54  
 Land  
   carrier (Q1) (1P1), 1Y  
   transport (1P1), 1  
 Landing and take-off  
   (Q1) (1P1), G  
 Large  
   capital (1P1) 0gD  
   *irt* Baggage accommodation  
     (1P1), dCE  
   number of carriers (1P1), 0D  
   population (1P1), 9dD  
   size *irt* Carriage  
     (1P1), zmD  
   space *irt* Passenger  
     accommodation (1P1), cB1  
   volume  
     (1P1), 9vD  
   *irt* Carriage capacity  
     (1P1), zeD  
   weight (1P1), 9XD  
   *irt* Carriage capacity  
     (1P1), zgD  
 Leather cover (1P1), b54  
 Length of  
   haul

- (2M), zh
- (QI) (1P1), 9r
- run (QI) (1P1), zb
- vehicle restriction (1M), 4161
- Library (1P1), b7C
- Light
  - diesel oil *irt* Motor vehicle (1P1), EG1
  - (QI) (1P1), f5
  - railway (1P1), Zx
- Lighter (1P1), 5J3
- Lillooet canoe (1P1), 553
- Line
  - Attributes of (QI) (1P1), 0sZ
  - irt* Ownership (1P1), 0j2
  - length (2M), zg
  - Type of (QI) (1P1), 00Z
- Link travel time (2M), zc
- Liquid
  - mixture *irt*
    - Motor vehicle (1P1), ED
    - Railway train (1P1), 9M5
  - (1P1), 9X5
- Loading
  - (1P1), 09d
  - charge (1M), 6Vm
  - port charge (1M), 6X
- Local
  - body *irt* Ownership (1P1), 0h35
  - freight service, Replacement of (1P1), 09m
  - tax (1M), 6XG
  - transport rate (1M), 6ze
- Location of baggage (QI) *irt* Rate (1M), 65
- Long
  - distance
    - covered (1P1), 09w
    - irt* Passenger travel (1P1), GE
    - Residence (1P1), QD
    - route *irt* Rate (1M), 6zd
  - haul (1P1), 9rD
  - run (1P1), z6D
  - term
    - charter (1P1), 0m3D
    - hired (1P1), 0m5D
- Loop line (1P1), 086
- Low
  - altitude *irt* Aircraft (1P1), BB
  - density traffic (1P1), 9cB
  - frequency service (1P1), 09M
  - movement cost (1P1), 0cB
  - project area (1P1), 9b3
  - value goods *irt*
    - Goods rate (1M), 6EB
- Lower price *irt*
  - Discriminatory service (2M), zs4
- Luggage compartment *irt*
  - Baggage accommodation (1P1), dRE
  - See also* Baggage
- Luxury class (1P1), zr1
- Mach number (1P1), D
- Mail service (1P1), 0W
- Main
  - line (QI) (1P1), 0l
  - route, Substitution of (1P1), 09r
- Maintenance (1M), 88
- Management
  - and organisation (QI) (1P1), 0aZ
  - (QI) (1P1), 0aZ
- Many times a day
  - irt* Frequency of travel (1P1), E77
- Market
  - (1P1), K41
  - Kind of (QI) (1P1), 9f
  - Other (1P1), 9( )
  - served, Attribute of (QI) (1P1), 9aZ
  - share (1M), 85
  - analysis method (2M), 6
  - Travel to *irt* Rate (1M), 6s41
- Mass transport (1P1), OR
- Maximum
  - pick-up time (2M), ze
  - weight of storage *irt*
    - Restriction (1M), 4383
- Medical aid
  - (1M), 376
  - (1P1), e4
- Medium
  - altitude *irt* Aircraft (1P1), BC
  - capital (1P1), 0gC
  - diesel oil *irt* Motor vehicle (1P1), EG2
  - distance
    - covered (1P1), 09V
    - irt*
      - Passenger travel (1P1), GC
      - Residence (1P1), QC
  - frequency service (1P1), 09N
  - haul (1P1), 9rC
  - irt* Baggage accommodation (1P1), dCC
  - movement cost (1P1), 0cC
  - number of carriers (1P1), 0C

- run (IP1), zbC  
 size  
   *irt* Carriage (IP1), zmC  
   population (IP1), 9dC  
 speed *irt*  
   Motor vehicle (IP1), ZjC  
   Railway train (IP1), VC  
 Medium  
   traffic density (IP1), 9cC  
   value goods *irt*  
     Goods rate (1M), 6EC  
   volume  
     (IP1), 9vC  
     *irt* Carriage capacity  
       (IP1), zeC  
   weight  
     (IP1), 9xC  
     *irt* Carriage capacity  
       (IP1), zgC  
 Merchandise, Interchange of  
   (IP1), 09g  
 Metropolitan area (IP1), 9j2  
 Microshape of goods (Q1) (IP1), 9z  
 Mileage rate (1M), 6j2l  
 Military  
   passenger (IP1), VC  
   transport (IP1), 0N  
 Minimum  
   rate (1M), 65  
   weight of storage *irt*  
     Restriction (1M), 4385  
 Missionary (IP1), VQ  
 Mist *irt* Service (1M), 5I  
 Mixed  
   class (IP1), zrM  
   service (IP1), 0J  
 Modal preference (1M), 75  
   (IP1), 0(Z)  
 Mode of transport (Q1)(IP1), 0 (Z)  
 Monorail hovercraft (IP1), 4X1  
 Monthly travel (IP1), E3  
 Moped (IP1), 4F  
 Motor  
   bus (IP1), 4C  
   car (IP1), 4B  
   cycle (IP1), 4D  
   scooter (IP1), 4E  
   to carrier rate (1M), 6P1  
   truck (IP1), 4J  
   vehicle (IP1), 4A  
 Movement (1M), 33  
   cost per  
     ton (1M), 6e5  
     unit (IP1), 0c  
   of goods, Stage of  
     (Q1) (IP1), 9P  
 Mule (IP1), 25  
 Multicar household (IP1), R7  
 Multifuel *irt* Motor vehicle  
   (IP1), E8  
 Multiple mode (IP1), 8X  
 Muscular power *irt* Carrier  
   (IP1), 1Z  
 Music (IP1), b73  
 Name of service (Q1) (IP1), 0( )  
 National line (IP1), 03  
 Narrow rate (IP1), 0 vB  
 Net cost (1M), 6d  
 Night  
   service (IP1), 0rC  
   travel *irt* Rate (1M), 6r2  
 No value *irt* Goods (1M), 6E0  
 Non-  
   air breathing engine (IP1),  
     18  
   profitable area (IP1), 9b4  
   remunerative area (IP1),  
     9b4  
   residential area (IP1),  
     9f26  
 Nuclear engine *irt*  
   Aircraft (IP1), 1M  
   Motor vehicle (IP1), X7  
   Railway train (IP1), S7  
 Number of  
   carriers (Q1) (IP1), 0AZ  
   passengers (Q1) (IP1), N  
   units carried  
     *irt* carriage capacity  
       (IP1), zJ  
     (Q1) (IP1), 9y  
   vehicles *irt*  
     Area service analysis  
       (2M), zc  
     Market share (2M), zg  
 Number per  
   day *irt*  
     High frequency service  
       (IP1), 09PC  
     Low frequency service  
       (IP1), 09MC  
     Medium frequency service  
       (IP1), 09NC  
   hour *irt*  
     High frequency service  
       (IP1), 09PB  
     Low frequency service  
       (IP1), 09MB  
     Medium frequency service  
       (IP1), 09NB  
   month *irt*  
     High frequency service  
       (IP1), 09PE

- Low frequency service (IP1), 09ME  
 Medium frequency service (IP1), 09NE  
 week *irt*  
   High frequency service (IP1), 09PD  
   Low frequency service (IP1), 09MD  
   Medium frequency service (IP1), 09ND  
 Nydam boat (IP1), 555  
 Oar boat (IP1), 557  
 Observation lounge (IP1), cB5  
 Obstruction to thoroughfare (Q1) (1M), 48  
 Ocean liner (IP1), 5E  
   transport (IP1), 55  
 Octane *irt* Motor vehicle (IP1), EB8  
 Octroi (1M), 6XH  
 Office (IP1), K2  
 Official passenger (IP1), VB  
 Omni-direction (1M), 4147  
 One-line season ticket (1M), 6n1  
 One-way restriction (1M), 4141  
 Operating cost (1M), 6e  
   speed (2M), zb  
 Organisation and management (Q1) (IP1), 0aZ  
 Out-of-pocket cost (1M), 6j6  
 Overall shape of goods (Q1) (IP1), 90z  
 Overland carrier (Q1) (IP1), 1  
 Owner  
   accompanied baggage (1M), 671  
   (Q1) (IP1), 0h  
 Ownership and control (Q1) (IP1), 0gZ  
 Ox (IP1), 21  
 Pack animal (IP1), 2  
 Packet (1M), 66r  
   programme *irt* Rate (1M), 6sB  
 Packing and forwarding service (IP1), 09E  
 Padded instrument panel (IP1), f17  
   steering wheel (IP1), f1B  
 Palanquin (IP1), 33  
 Park'N ride (IP1), 09c  
 Parking (IP1), 096  
   *irt* Restriction (1M), 45  
   Partnership (IP1), 0h2  
   Party (IP1), ND  
   Passenger (IP1), B  
   accommodation (IP1), eB  
   attribute  
   *irt* Restriction (1M), 42  
   Category of (Q1) (IP1), V  
   (Q1) *irt* Rate (1M), 60  
   loading (2M), zt  
   rate (2M), z6l  
   service (IP1), 0U  
   traffic pattern (2M), zn1  
   transport (IP1), 0F  
   Patient as passenger (IP1), V(L)  
   Payment in instalment (1M), 6j71  
   Peak-off differential (2M), zx  
   Pentane (IP1), EB5  
   Personal item (1M), 66t  
   service (2M), zr7  
   transport (IP1), R  
   vehicle carried (IP1), 09x  
   Personnel inadequacy *irt* Service (1M), 5H  
   Petrol engine *irt* Railway train (IP1), S1  
   *irt* Motor vehicle (IP1), EE  
   Pick-up and delivery (IP1), 09c  
   time, Maximum (2M), ze  
   cnic spot (IP1), K7  
   Pilgrim (IP1), VK  
   Pipeline transport (IP1), 7  
   Place  
   *irt* Discriminatory service (2M), zr1  
   of parking *irt* Restriction (1M), 455  
   Pneumatic transport (IP1), 7  
   Point-of-trip origin (2M), zt  
   Population cluster (Q1) (IP1), 9j  
   density (2M), zb  
   Size of (Q1) (IP1), 9d  
   Port charge (1M), 6Vu  
   *irt* Ownership (IP1), 0j8  
   Stop at (1M), 3421  
   Porterage (IP1), 31  
   Position *irt* Baggage accommodation (IP1), dR  
   Power-driven vehicle (IP1), 4  
   Preference of mode (1M), 75  
   Prepaid reply charge



- irt* Goods (1M), 6Vc  
 Pressurisation (1P1), c87  
 Private body *irt*  
   Ownership (1P1), 0hB  
 Problem (1M), 94  
 Profitable area (1P1), 9b1  
 Prohibition of waiting *irt*  
   Restriction (1M), 441  
 Propulsion  
   Kind of *irt* Aircraft  
     (1P1), 0Z  
   system (Q1) *irt*  
     Air vehicle (1P1), zy.  
 Public address system (1P1), b83  
 Public holiday service (1P1),  
   0rE  
 Pullman (1P1), zr6  
 Pulsejet *irt* Aircraft (1P1), 173  
 Pure liquid fuel *irt*  
   Motor vehicle (1P1), EB  
 Purpose  
   *irt* Light (Q1) (1P1), fH  
   (Q1) (1P1), 9aY  
 Pushbutton radio (1P1), b632  
  
 Quality of service  
   (1M), 87  
   (2M), zs  
  
 Radar (1P1), b88  
 Radio (1P1), b63  
 Raft (1P1), 51  
 Railway (1P1), 3  
   -ship combination (2M), zs2  
   to railway rate (1M), 6P2  
   to water carrier rate  
     (1M), 6P3  
   train (1P1), 4T  
 Rain *irt* Service (1M), 52  
 Ramjet *irt* Aircraft (1P1), 172  
 Rate (2M), zp  
   for baggage (2M), z62  
   excess distance (1M), 6j22  
   goods (2M), z63  
   passenger (2M), z61  
   proportional to distance  
     (1M), 6j2  
 Raw material (SpC), b  
 Reaction engine  
   *irt* Aircraft (1P1), 17  
   Non-airbreathing *irt*  
     Aircraft (1P1), 1H  
 Rear  
   *irt* Baggage accommodation  
     (1P1), dR7  
   view mirror (1P1), f1R  
 Reciprocating engine *irt*  
   Aircraft (1P1), 12  
   Re-entry speed (1P1), DH  
   Refrigerated carriage *irt*  
     Goods rate (1M), 645  
   Region season ticket (1M), 6n4  
   Registration charge *irt* Goods  
     (1M), 6vb  
   Regular (1P1), 0p1  
   Regularity (Q1) (1P1), 0p  
   Regulation, Convenience of  
     (1P1), 091  
   Reimbursement of cost *irt*  
     Good (1M), 6Ve  
   Reindeer (1P1), 291  
   Relaxation (1P1), b21  
   Replacement (1P1), 09j  
   Reservation charge (1M), 69F  
   Residence (Q1) (1P1), S  
   Residential area (1M), 462  
     (1P1), 9f2  
   Restaurant (1P1), dT6  
   Restricted responsibility goods  
     rate (1M), 626  
   Restriction (1M), 4  
     of route (Q1) (1P1), 0t  
   Return  
     journey ticket (1M), 6n8  
     rate (1M), 6zg  
   Returning empty (2M), z1  
   Reversing light (1P1), fH2  
   Rickshaw (1P1), 45  
   Riding distance (2M), zp5  
   River (1P1), 53  
   Road transport (1P1), 2  
   Rocket engine *irt*  
     Aircraft (1P1), 1J  
   Rolling stone (1P1), 412  
   Ropeway (1P1), 6  
   Rotary  
     engine *irt* Aircraft  
       (1P1), 15  
     wing (1P1), GF  
   Round about *irt* Restriction  
     (1M), 4145  
   Round trip rate (1M), 6zh  
   Route  
     change *irt* Service  
       (1M), 5F1  
     (Q1) *irt* Rate (1M), 6zaZ  
     Restriction of (Q1) (1P1), 0t  
   Rubber mat (1P1), b55  
   Run, Length of (Q1) (1P1), zb  
   Runner (1P1), 311  
   Running expenditure (2M), zv  
   Rural area (1P1), 9j  
   Rush  
     baggage rate (1M), 63E,

- goods rate (1M), 6L4
- Safety (1P1), 09s  
 belt (1P1), f12  
   console (1P1), f11  
   device (Q1) (1P1), f1  
   provision (Q1) (1P1), f  
   Waiting for *irt*  
     Restriction (1M), 442  
 Sailboat (1P1), 556  
 Sales tax (1M), 6XK  
 Saloon (1P1), zr5  
 Sambuk (1P1), 5561  
 Scheduling  
   change *irt* Service (1M), 5F6  
   convenience (1P1), 09w  
 Scooter (1P1), 4E  
 Sea train (1P1), 5M5  
 Season ticket (1M), 6n  
 Seasonal travel (1P1), E2  
 Seat  
   mile, Operating cost per  
     (1M), 6e3  
   reservation charge (1M), 69F1  
 Second class (1P1), zrG  
 Secondary line (1P1), 08  
 Self-supporting (1P1), 0e  
 Semi-solid (1P1), 9X4  
 Separate accomod (1P1), dRB  
 Service (1M), 5  
   Dominant (Q1) (1P1), 0EZ  
   evaluation method (2M), 5  
   Frequency of (1P1), 09KZ  
   *irt* Discrimination (2M), zr3  
   Type of (Q1) *irt*  
     Rate (1M), 6i  
 Shape of  
   area (2M), zg  
   goods (Q1) (1P1), 9zy  
 Shatter-proof glass (1P1), f1F  
 Ship (1P1), 5B  
 Shipment, Frequency of (1P1), 9q  
 Shock  
   absorber (1P1), f1H  
   absorption front (1P1), f1L  
 Short  
   distance  
     covered (1P1), 09TS  
     haul (1P1), 9rB  
     *irt* Residence (1P1), QB  
     passenger travel (1P1), GB  
     run (1P1), zbB  
     take off (1P1), G3  
   term  
     charter (1P1), 0m3B  
     hired (1P1), 0m5B  
   waiting *irt* Restriction  
     (1M), 446  
 Sick passenger (1P1), V(L)  
 Side *irt* Baggage accommodation  
   (1P1), dR5  
 Single  
   car household (1P1), R1  
   engine *irt* Aircraft (1P1), 1z  
   fuel *irt* Motor vehicle (1P1), E1  
   journey season ticket (1M), 6n6  
   passenger (1P1), N1  
 Six engine *irt* Aircraft (1P1), z6  
 Size of  
   carrier (Q1) (1P1), zm  
   goods *irt* Restriction (1M), 416  
   population (Q1) (1P1), 9d  
   vehicle restriction (1M), 416  
 Skin boat (1P1), 54  
 Sleeper (1P1), zrB  
   rate (1M), 69B  
   reservation charge (1M), 69F2  
 Sleeping (1P1), b22  
 Slight pressurisation (1P1), c871  
 Slippery surface *irt*  
   Service (1M), 56  
 Slow  
   speed *irt*  
     Motor vehicle (1P1), ZjB  
     Railway train (1P1), VB  
   transport *irt* Baggage rate  
     (1M), 63B  
 Slurry (1P1), 9X2  
 Small  
   capital (1P1), 0gB  
   *irt* Baggage accommodation  
     (1P1), dcB  
   number of carriers (1P1), 0B  
   population (1P1), 9dB  
   size *irt* Carriage (1P1), zmB  
   volume (1P1), 9vB  
     *irt* Carriage capacity (1P1), zcB  
   weight (1P1), 9xB  
     *irt* Carriage capacity  
       (1P1), zgB  
 Smog control (1P1), c34  
 Smoking lounge (1P1), cB4  
 Society (1P1), 0h63  
 Solar engine (1P1), 1N  
 Solid (1P1), 9X1  
   fuel (1P1), 9M1  
 Sonic (1P1), DC  
 Sound deadening sheet (1P1), b52  
 Source of finance (Q1) (1P1), 0dZ  
 Snack bar (1P1), dT6  
 Snow *irt* Service (1M), 54  
 Special  
   attributes of goods (1M), 6J

- category of passenger (IP1), (X)
- charge (1M), 69H
  - for goods (1M), 6X
- destination (IP1), 9t
- irt* Passenger (IP1), K
- property of goods
  - (Q1) (IP1), 9MZ
- provision (Q1) (IP1), e
- purpose
  - rate (1M), 6s
  - vessel (IP1), 5M
  - rate (Q1) (1M), 6L
  - restriction (1M), 488
  - service (Q1) (IP1), 0r
  - travel plan rate (1M), 6j7
- Speed
  - irt* Aircraft (IP1), D
  - Motor vehicle (IP1), Zj
  - Railway train (IP1), V
  - of transport (1M), 63
  - restriction (1M), 413
- Sponsorship (1M), 8H
- Spot light (IP1), fHJ
- Spring cart (IP1), 44
- Stage
  - of movement of goods
    - (Q1) (IP1), 9p
  - of travel (Q1) (IP1)
  - show (IP1), b74
- State
  - government ownership
    - (IP1), 0h32
  - of goods (Q1) (IP1), 9X
- Station
  - irt* Ownership (IP1), 0j8
  - spacing (2M), zp
  - stop (1M), 34i
- Status of line (Q1) (IP1), 00Z
- Statutory body *irt* Ownership
  - (IP1), 0h8
- Stereophonic tape (IP1), b64
- Stop (1M), 34
  - light (IP1), fH6
- Storage
  - cost (1M), 6Vr
  - of goods (1M), 438
  - (Q1) 6G
- Storm (1M), 58
- Street
  - car (IP1), 4P
  - railway (IP1), 3i
- Student as passenger (IP1), VF
- Submarine (IP1), 5P
  - route (IP1), 554
- Subsonic speed (IP1), DB
- Substitution (IP1), 09p
- Suburban (IP1), 9j35
- Subway (IP1), 28
  - length (2M), zg4
- Sudden change of service
  - (1M), 5F
- Suit case (1M), 66b
- Sun visor (IP1), f1P
- Super-city (IP1), 9j4
- Supersonic speed (IP1), DE
- Support (1M), 8H
- Surcharge (1M), 69J
- Survey (1E), u
- Swimming (IP1), b72
- Take-off and landing
  - (Q1) (IP1), G
- Tanker (IP1), 5M1
- Tangible cost (1M), 6g
- Tariff (1M), 6h
- Tapered rate (1M), 6Q
- Technological factor (1M), 8B
- Telecommunication facility
  - (IP1), b8
- Telegraph (IP1), 684
- Television (IP1), 665
- Telex (IP1), b86
- Temporary (IP1), 0p6
- Terminal
  - charge (1M), 6Vt
  - service (IP1), 09C
- Thaw (1M), 55
- Third class (IP1), zrH
- Thermostatic control (IP1), c82
- Three-masted ship (IP1), 5B3
- Through route and joint rate
  - (1M), 6P
- Time
  - differential
    - (2M) zb
    - (IP1) 09w6
  - of journey (1M), 6qz
  - of parking (1M), 451
  - value (2M), 3d1
- Toboggan (IP1), 417
- Toilet (IP1), b33
- Toll rate (1M), 6XE
- Tonnage rate (1M), 6L5
- Top *irt* Baggage position
  - (IP1), dR2
- Total
  - cost (1M), 6b
  - time for trip (2M), zd3
  - trip cost (1M), 6j5
- Tour *irt* Rate (1M), 688
- Tourist (IP1), VM
  - area (IP1), 9f8
  - service (IP1), 0r9
  - spot (IP1), K8

- Transshipment (1P1), 09f  
 Town (1P1), 9j6  
 Track *irt* Ownership (1P1), 0j1  
 Traffic  
   density (Q1) (1P1), 9c  
   flow (1M), 81  
     analysis method (2M), 6  
   noise (1M), 46  
   pattern (2M), zn  
 Tramp (1P1), 0p8  
 Transfer stage (1P1), C8  
 Transshipment  
   cost (1M), 6Vn  
   point stop (1M), 344  
 Transit  
   passenger (1P1), C6  
   rate (1M), 6z6  
 Transonic speed (1P1), DD  
 Transport  
   economics XX, D74  
   mode combination (2M), zs  
 Travel  
   -and-pay-later rate  
     (1M), 6j73  
   arrangement (1M), 38  
   Frequency of (Q1) (1P1), E  
   Stage of (Q1) (1P1), C  
   time (2M), zp1  
 Tram car (1P1), 4P  
 Travel plan service (1P1), 09B  
 Travois (1P1), 418  
 Tree trunk roller (1P1), 411  
 Trip  
   cost (1M), 6j5  
   length (2M), zh  
   making potential (1M), 73  
 Tri-weekly travel (1P1), E53  
 Truck-trailer (1P1), E53  
 Trunk-road (1P1), 21  
 Tug (1P1), 5J1  
 Turbo  
   jet (1P1), 175  
   ramjet (1P1), 176  
 Turnpike (1P1), 22  
 Twice weekly travel (1P1), E52  
 Two  
   engine (1P1), z2  
   way radio (1P1), b82  
 Type of service (1M), 68  
 Typewriter (1P1), b16  
  
 Umbrella (1M), 66v  
   rate (1M), 6R  
 Umiak (1P1), 541  
 Unaccompanied baggage rate  
   (1M), 676  
 Unincorporated body (1P1), 0h6  
  
 Unloading (1P1), 09e  
 Underground (1P1), 28  
   railway (1P1), 34  
 Underneath (1P1), dR6  
 Underpricing (2M), zr  
   *irt* Discriminatory service  
     (2M), zr4  
 Uniform accommodation (1P1), cB3  
 Unloading cost (1M), 6Vp  
 Urban (1P1), 9j3  
 Utilisation (1M), 887  
  
 Value of goods (Q1) (1M), 6E  
 Variety of carrier (Q1) (1P1), 1  
 Vehicle  
   Power driven (1P1), 4  
   restriction (1M), 41  
 Ventilation (1P1), c3  
 Vertical take-off (1P1), G2  
 Very  
   high  
     altitude (1P1), BE  
     speed (1P1), VE  
   large  
     population (1P1), 9dE  
     volume (1P1), 9vE  
       *irt* Carriage capacity  
         (1P1), zeE  
     weight (1P1), 9xE  
       *irt* Carriage capacity  
         (1P1), zgE  
   long *irt*  
     Distance covered (1P1), 09X  
     Haul (1P1), 9rE  
     Passenger travel distance  
       (1P1), GF  
     Run (1P1), zbE  
     short distance (1P1), 09T  
 Viable area (1P1), 9b2  
 Viability (1M), 86  
 Village (1P1), 9jB1  
 Volume (Q1)  
   *irt* Carrier capacity (1P1), ze  
   Goods carried (1P1), 9v  
  
 Wage (2M), zv1  
 Wagon storage (1M), 641  
 Waiting (Q1), (1M), 44  
   time (2M), zp2  
 Walking distance (2M), zp3  
 Walnut panel (1P1), h5M  
 Warehousing (1M), 646  
 Washing (1P1), 631  
 Water  
   Carrier (1M), 6P5  
   transport rate (1M), 6zm

- way carrier (IP1), 5  
 Weekly travel (IP1), E5  
 Weight (Q1) (IP1), 9x  
 distance (2M), zk  
   *irt* Market share (2M), zm  
   *irt* Carriage (Q1) (IP1), zg  
   of shipment (2M), ze  
   of vehicle restriction (1M), 415  
   *irt* Baggage rate (1M), 96a  
 Wheel cart (IP1), 42  
 Wide  
   front vision (IP1), f1N  
   route (IP1), 0vP  
 Width of  
   route (Q1) (IP1), 0vD  
   vehicle restriction (1M), 4162  
 Windscreen, Z one toughened  
   (IP1), f1D  
 Windshield  
   washer (IP1), f1X  
   wiper (IP1), f1S  
 Without engine Aircraft (IP1), z0  
 Woman, Provision for (IP1), zrP  
 Workman as passenger (IP1), VD  
 Writing table (IP1), b12  
  
 Yak (IP1), 295  
 You-drive-it rate (1M), 6j4  
  
 Zone toughened windscreen (IP1),  
   f1D
- 7 Schedule**
- XX, D74 Transport Economics**
- Schedule of (IP1)  
 Speciators
- aY *By Attributes of carrier system*  
 aZ *By Attributes of carrier*  
 b *By Facility in carrier*  
 b1 *By Executive facility*  
 b12 Writing table  
 b16 Typewriter  
 b18 Dictaphone
- b2 *By House keeping facility*  
 b21 Relaxation  
 b22 Sleeping  
 b23 Cooking
- b3 *By Sanitary facility*  
 b31 Washing  
 b33 Toilet  
 b35 Bath
- b5 *By Interior trimming*  
 b52 Sound deadening sheet  
 b53 Felt underlay  
 b54 Carpet  
 b55 Rubber mat  
 b5F Knit-weave vinyl  
 b5H Leather cover  
 b5M Walnut panel
- b6 *By Audiovisual accessory*  
 b63 Radio  
 b632 Pushbutton  
 b64 Stereophonic tape  
 b65 Television
- b7 *By Entertainment*  
 b71 Games  
 b72 Swimming  
 b73 Music  
 b74 Stage show  
 b75 Cinema  
 b77 Dance  
 b7C Library
- b8 *By Telecommunication facilities:*  
 b81 Telephone  
 b82 Two-way radio  
 b83 Public address system  
 b84 Telegraph  
 b86 Telex  
 b88 Radar
- c3 *R: Ventilation*  
 c31 Fresh air admittance  
 c34 Smog control  
 c38 Air ducting  
 c381 Hood  
 c382 Door
- c4 *By Heating*  
 c41 Defrosting  
 c44 Heating  
 c45 Hot water  
 c48 Hot air
- c8 *By Climatic control*  
 c82 Thermostatic control  
 c83 Air-conditioning  
 c87 Pressurisation  
 c871 Slight  
 c872 Full
- cB *By Passenger accommodation*  
 cB1 Large space  
 cB3 Uniform accommodation  
 cB4 Smoking lounge  
 cB5 Observation lounge

d	<i>By Baggage accommodation</i>	f HJ	Spot
dC	<i>By Capacity</i>	f HM	Internal
dCB	Small	zb	<i>By Length of run (Km)</i>
dCC	Medium	zbB	Short (Upto 50)
dCE	Large	zbC	Medium (Over 50, less 500)
dM	<i>By Fixity</i>	zBD	Long (Over 500, less 5,000)
dM1	Fixed	zbE	Very long (Over 5,000)
dM6	Detachable	zdZ	<i>By Capacity</i>
dR	<i>By Position</i>	ze	<i>By Volume (Cu M)</i>
dR1	Front	zeB	Small (Upto 10)
dR2	Top	zeC	Medium (Over 10, less 100)
dR5	Side	zeD	Large (Over 100, less 1,000)
dR6	Underneath	zeE	Very large (Over 1,000)
dR7	Rear	zg	<i>By weight (Kg)</i>
dRB	Separate	zgB	Small (Upto 100)
dRE	Cabin	zgC	Medium (Over 100, less 1,000)
dRF	Luggage compartment	zgD	Large (Over 1,000, less 5,000)
dT	<i>By Food/Beverage service</i>	zgE	Very large (over 5,000)
dT3	Food service	zj	<i>By Number of units carried</i>
dT5	Dining car service	zm	<i>By Size of carrier</i>
dT6	Snack bar. Restaurant	zmB	Small
dT8	Bar	zmC	Medium
e	<i>By Special provision</i>	zmD	Large
e4	Medical aid	zr	<i>By Class provided</i>
e5	Provision for babies	zr1	Luxury
e7	Provision for children	zr3	Air-conditioned
f	<i>By Safety provision</i>	zr5	Saloon
f1	<i>By Safety device</i>	zr6	Pullman
f11	Safety console	zrB	Sleeper
f12	Safety belt	zrE	Coupe
f15	Antiburst door lock	zrF	First
f17	Padded instrument panel	zrG	Second
f1B	Padded steering wheel	zrH	Third
f1D	Zone toughened wind screen	zrJ	Intermediate
f1F	Shatter-proof glass	zrM	Mixed
f1H	Shock absorber	zrP	Women
f1K	Bumber	z( )	<i>By Carrier</i>
f1L	Shock absorption front	1	<i>By Variety</i>
f1M	Better vision facility	1Y	<i>By Overland carrier</i>
f1N	Wide front vision	1Z	Using muscular power
f1P	Sun visor	2	Pack animal
f1R	Rear view mirror	21	Bull. Ox. Buffalo
f1S	Wind shield wiper	22	Horse
f1X	Wind shield washer	23	Donkey
f5	<i>By Light</i>	25	Mule
fH	<i>By Purpose</i>	26	Camel
fH1	Headlight	27	Elephant
fH2	Reversing	291	Reindeer
fH6	Stop	292	Dog
fHB	Cornering	296	Yak
fHE	Fog		

298	Other	EF	Kerosene
		EG	Diesel oil
3	Human	EG1	Light
31	Porterage	EG2	Med. um
311	Runner	EG3	Heavy
312	Dragging	ES	Gaseous fuel
315	Pushing		
		X	<i>By Kind of engine</i>
33	Palanquin	X1	Petrol (gasolene) engine
34	Chair	X2	Diesel engine
35	Doly	X5	Gas turbine
38	Other	X6	Electrical
		X7	Nuclear
4	Vehicle, Power-driven		
411	Tree trunk roller	Zj	<i>By Mean maximum speed</i>
412	Rolling stone		(Average speed) (Kmph)
		ZjB	Slow (1 to 25)
413	Chariot	ZjC	Medium (26 to 60)
415	Coach	ZjD	High (61 to 120)
416	Sledge	ZjE	Very high (Over 120)
▲17	Toboggan		
▲18	Travois		( <i>Illustrative examples of</i>
42	Wheel cart		<i>Compound Carrier Iso-</i>
43	Country cart		<i>lates</i> )
44	Spring cart		
45	Rickshaw	z(4C-X2)	Diesel engine bus
46	Hackney	z(4J-EG3)	Motor truck using heavy diesel oil
48	Cycle	z(4P-X6)	Electric Street car
4A	Motor vehicle		
4B	Motor car	4T	Railway train
4C	Bus, Motor bus		
4D	Motor cycle		<i>Selected Differentiated</i>
4E	Motor scooter		<i>Speciators for "4T Railway</i>
4F	Moped		<i>train"</i>
4G	Autorickshaw	9M	<i>By Fuel</i>
4J	Motor truck	9M1	Solid
4L	Truck-trailer	9M11	Coal
4P	Tramcar, Street car	9M12	Coal slurry
		9M5	Liquid Mixture
		9M52	Gasolene
	<i>Selected Differentiated</i>	9M55	Kerosene
	<i>Speciators for "4A to 4P</i>	9M6	Diesel oil
	<i>Motor vehicle etc". (See Sec</i>		
	<i>23 of</i>		
	<i>the text).</i>	S	<i>By Kind of engine</i>
E	<i>By Fuel</i>	S1	Petrol (gasolene) engine
E01	With antifreeze	S2	Diesel engine
E1	Single fuel	S5	Gas turbine
E2	Dual fuel	S6	Electrical
E8	Multifuel	S7	Nuclear
EB	Pure liquid		
EB5	Pentane	V	<i>By Mean maximum speed</i>
EB6	Hexane		(Average speed) (Kmph)
EB7	Heptane	VB	Slow (1 to 25)
FB8	Octane	VC	Medium (26 to 60)
ED	Liquid mixture	VD	High (61 to 120)
EE	Gasolene (favoured)	VE	Very high (over 120)

ZfZ	<i>By Gauge</i>	5B	Ship
Zg	Less than 2'	5B1	Gokstad
Zh	2'	5B3	Three masted
Zj	2'6"		
Zk	3'	5D	Coastal vessel
Zm	3' 3-7"	5E	Ocean liner
Zp	3'6"	5J	Harbour craft
Zr	4'6"	5J1	Tug
Zs	4' 8-5"	5J3	Lighter
Zt	5'6"	5J5	Barge
Zu	Other gauges	5J7	Ferry
Zx	Light railway		
	<i>(Illustrative examples of Compound Carrier Isolates)</i>	5M	Special purpose vessel
		5M1	Tanker
		5M3	Collier
		5M5	Sea train
z(4T-S2)	Diesel engine train	5P	Submarine
z(4T-Zs)	Standard (American) gauge train		<i>Note.—The speciators for "4A Motor vehicle" can be used with "5B to 5P" (Illustrative)</i>
z(4T-Zs-S6)	Standard gauge electric train		Gas turbine powered ocean liner
4X	Air-cushion vehicle. Hovercraft	z(5E-X5)	Petrol engine powered ferry craft
	<i>Note.—The speciators for "4A Motor vehicle" can be used with "4X" and "4X1".</i>	z(5J7-X1)	High speed, nuclear powered submarine
	<i>(Illustrative)</i>	6	Ropeway
z(4X-X5)	Gas turbine powered air cushion vehicle	7	Pipeline transport. Pneumatic transport
z(4X-ZjC-X2)	Medium speed, diesel powered air cushion vehicle	8	Air vehicle. Aircraft.
			<i>Speciators for "8 Air vehicle"</i>
5	<i>By Waterway carrier</i>	zy	<i>By Propulsion system</i>
15	Raft. Kattamaran.	z	<i>By Number of engines</i>
511	Jangada	z0	Without engine
52	Inverted pot	z1	Single engine
53	Coracle	z2	Two-engine
54	Skin-boat	z4	Four-engine
541	Urmiak	z6	Six-engine
542	Kayak	0Z	<i>By Kind of propulsion</i>
545	Bullskin boat	1	Internal combustion engine
55	Boat		Air-breathing
551	Dugout	11	Reciprocating
552	Flat boat	12	Rotary
553	Lilloet canoe	15	Gas turbine
554	Brigg boat	158	Reaction engine (jet)
555	Nydam boat	17	Ramjet
556	Sail boat	172	Pulsejet
5561	Sambuk	173	Turbojet
557	Oar boat	175	Turbo-ramjet
558	Gondola	176	Non-airbreathing
58	Galley	18	



1H	Reaction engine	Of 3	Government financed
1J	Rocket engine	Of 5	Company financed
1K	Chemical rocket	OfB	Private finance
1M	Nuclear	Og	<i>By Capital investment</i>
1N	Solar engine		(in Rs 1,000)
1P	Electro-magnetic propulsion	OgB OgC OgD	Small (Upto 50) Medium (50 to 250) Large (Over 250)
B	<i>By Altitude (Km)</i>		
BB	Low (Upto 1)	OgZ	<i>By Ownership and control</i>
BC	Medium (Over 1, less 5)	Oh	<i>By Kind of owner/supporter</i>
BD	High (Over 5, less 20)	Oh1	Individual
BE	Very high (Over 20)	Oh2 Oh3	Partnership Government (including quasi government)
D	<i>By Speed (Mach number)</i>		
DB	Subsonic (Upto 0.9)	Oh31	Central. Federal
DC	Sonic	Oh32	State
DD	Transonic (0.91-1.5)	Oh35	Local body
DE	Supersonic (1.1-4.0)	Oh37	Government-associated
DF	High supersonic (14.1-5.0)	Oh5	body Incorporated body
DG	Hypersonic (5.1-15.0)	Oh51	Joint stock company.
DH	Re-entry (Over 15)	Oh55	Company Foreign
G	<i>By Take-off and landing</i>	Oh6	Unincorporated body
GI	Conventional (favour- ed)	Oh63 Oh66	Society Charitable institution
G2	Vertical (VTOL)	Oh68	Business body
G3	Short take off	Oh7	International body
G5	Helicopter	Oh8	Other statutory bodies
G5I	Compounded	OhB	Private body
GB	Direct jet lift	OhG	Independent
GF	Rotary wing		
	<i>(Illustrative examples of Compound Carrier Isolates)</i>	Oj Oj1 Oj2 Oj8	<i>By Entity owned</i> Track Line Dock. Station etc
z(8-DE)	Supersonic aircraft		
z(8-DE-17)	Supersonic jet aircraft	Om	<i>By Contract</i>
z(8-G2)	VTOL aircraft	Om1	Contractual
z(8-G5)	Helicopter	Om2 Om3	Demand-scheduled Chartered
OzZ	<i>By Organisation and management</i>	Om3B Om3D	Short-term Long-term
OzB	<i>By Finance</i>	Om5 Om5B	Hired Short-term
Oc	<i>By Movement cost per unit</i>	Om5D	Long-term
OcB	Low	Om6	Concessional
OcC	Medium	Om7	Free
OcD	High	Om8	Altered
OdZ	<i>By Source of finance</i>	Op	<i>By Regularity</i>
Oe	Self-supporting	Op1	Regular
Of	Other source	Op4	Irregular
	<i>Note.-Division as for "Oh By Kind of owner" (Illustrative)</i>	Op6 Op8	Temporary Tramp

0r	<i>By Special service</i>	086	Loop
0r3	Excursion	088	Diversion
0r8	Tourist		
0rC	Night	09aZ	<i>By Facility/Convenience</i>
0rE	Public holiday	09b	Parking
0rG	Holiday season	09c	Park 'N ride
0rJ	Emergency	09d	Loading
		09e	Unloading
0sZ	<i>By Attributes of line</i>	09f	Transhipment
0t	<i>By Restriction of route</i>	09g	Interchange of mer-
	<i>Note.—Divide as "4</i>		<i>chandise</i>
	<i>Restriction "in the</i>	09j	Replacement
	<i>schedule of (M) isolates</i>		<i>T2 (A2) into (A1) begins</i>
	<i>(Illustrative)</i>	09k	Carrier
0t13	Speed	09m	Local freight service
0t15	Weight		<i>T2 (A2) into (A1) ends</i>
0t2GD	Long distance	09p	Substitution
0v	<i>By Route width</i>		
0vB	Narrow		<i>T3 (A2) into (A1) begins</i>
0vD	Wide	09q	Freightway train
		09r	Main line route
0x	<i>By Continuity</i>		<i>T3 (A2) into (A1) ends</i>
0x1	Continuous		
0x4	Discontinuous	09s	Safety
0x6	Fragmentary network	09s3	Insurance coverage
		09u	Door-to-door service
0y	<i>By Physical environment</i>	09v	Pick-up and delivery
	<i>Note.—Division by</i>	09w	Convenient scheduling
	<i>"Environment Device" (5)</i>	09w6	Time differential
	<i>(Illustrative)</i>	09x	Personal vehicle
0yUC4	Desert		carried
0yUC5	Marshy	09i	Convenient regulations
0yUG7	Mountainous		
00Z	<i>By Type/Status</i>	092	<i>T4 (A2) into (A1) begins</i>
01	Main line	093	Common regulations
		094	Border regulations
	<i>T1 (A2) into (A1)</i>	095	Customs formalities
	<i>begins</i>	096	Inspection
02	International		Embarkation/dis-
021	Inter-country		embarkation forma-
023	Inter-continental		lities
03	National		<i>T4 (A2) into (A1) ends</i>
031	Inter-state	097	Common itinerary
034	Inter-district		planning
035	Inter-city	098	Agency service
05	Intra-ocean	09B	Travel plan service
051	Intra-coastal	09C	Terminal service
052	Intra-regional	09E	Packing and forward-
055	Intra-island		ing service
056	Inter-island	09J	Containerisation
	<i>T1 (2) into (A1) ends</i>	09KZ	<i>By Frequency of service</i>
		09M	Low
08	Secondary line	09MB	Number/hour
083	Feeder	09MC	Number/day
085	Chord	09MD	Number/week

09ME	Number/month	23	Classified
09N	Medium	25	Autobahn
09NB	Number/hour	26	Autostrade
09NC	Number/day	28	Subway. Under-
09ND	Number/week		ground
09NE	Number/month	3	Railway
09P	High	31	Street
09PB	Number/hour	33	Ordinary (favoured)
09PC	Number/day	34	Underground
09PD	Number/week		T5 (A2) into (A1) ends
09PE	Number/month		Waterway
09R	Daily service	5	Inland
		51	Channel
09SZ	By Distance covered (Km)	52	River
09T	Very short (Less than 5)	53	Lake
		54	Ocean
09U	Short (Over 5, less 50)	55	Coastal
09V	Medium (Over 50, less 500)	551	Submarine route
		554	Airway
09W	Long (Over 500, less 5,000)	8	Multiple mode
		8X	
09X	Very long (Over 5,000)	9aY	By Purpose
		9aZ	By Attributes of area]
0AZ	By Number of carriers		Market to be served
0B	Small (1 to 10)		
0C	Medium (11 to 50)	9b	By Economy of area
0D	Large (Over 50)	9b1	Profitable
		9b2	Viable
0EZ	By Dominant service/Use	9b3	Low profit
0F	Passenger transport	9b4	Non-remunerative
0G	Commuting		Non-profitable.
0H	Cargo transport.	9b6	Costly
	Freight		
0J	Mixed service	9c	By Traffic density
0M	Civilian	9cB	Low
0N	Military	9cC	Medium
0R	Mass transport.	9cD	High
	Bulk transport	9cE	Abnormal
0U	Passenger service	9d	By Size of population
0W	Mail service		(in 1,000)
0X	Express service	9dB	Small (Upto 25)
		3dC	Medium (25 to 99)
0( )	By Name (Brand) of service	9dD	Large (100 to 250)
	Note.—Division by (AD) (Illustrative)	9dE	Very large (Over 250)
0(C)	Caravan transport	9f	By Kind of market Area
0(G)	Greyhound transport	9f 1	Domestic
0(R=V)	Ram Vilas service	9f 2	Residential
		9f 25	Non-residential
		9f 5	Business. Commercial
0(Z)	By Mode of transport	9f 8	Tourist area
1	Land	9f A	Industrial
		9f ( )	Other market area
	T5 (A2) into (A1) begins		Note.—Division by (SD)
2	Road		(Illustrative)
21	Highway. Trunk road		Agricultural
22	Turnpike	9f (J)	

9f (J,481)	Coffee growing	9u	<i>By Bulk</i>
9f (JX)	Forest		T6 (A2) into (A1) begins
9j	<i>By Type of population cluster</i>	9v	<i>By Volume (CuM)</i>
9j1	Conurban	9vB	Small (Upto 10)
9j2	Metropolitan area	9vC	Medium (Over 15, less 100)
9j3	Urban	9vD	Large (Over 100, less 1,000)
9j35	Suburban		Very large (Over 1,000)
9j4	Supercity	9vE	
9j5	City		
9j6	Town	9x	<i>By Weight (in 100 kg)</i>
9jB	Rural area	9xB	Small (Upto 1)
9jB1	Village	9xC	Medium (Over 1, less 5)
		xD	Large (Over 5, less 50)
9mY	<i>By Attributes of entity for transport</i>	9xE	Very large (Over 50)
9mZ	<i>By Attributes of goods</i>		
9n	Goods	9y	<i>By Number of units carried</i>
9p	<i>By Stage of movement</i>		<i>By Shape</i>
	<i>Note.—Divide as "C</i>	9yz	<i>By Microshape</i>
	<i>By Stage of travel"</i>	9z	
	<i>(Illustrative)</i>		
9p1	Arriving		<i>Note.—Divide as</i>
9p6	In transit		"bF" in the schedule
9q	<i>By Frequency of shipment</i>		of "Common Property
	<i>Note.—Divide as "E</i>		Isolates" (8)
	<i>By Frequency of travel"</i>	9z21	<i>(Illustrative)</i>
	<i>(Illustrative)</i>	9z4	Powder
			Fibre
9q1	Annual	90z	<i>By Overall shape</i>
9q2	Seasonal		<i>Note.—Divide as</i>
9r	<i>By Length of haul (in 100 Km)</i>		"bB" in the schedule
	<i>(Distance to be covered)</i>	9021	of "Common Property
9rB	Short (Upto 0.5)	904	Isolates" (8)
9rC	Medium (Over 0.5, less 5)	9AZ	<i>(Illustrative)</i>
9rD	Long (Over 5, less 50)	9B	Rod
9rE	Very long (Over 50)	9B1	Wire
9s	<i>By Destination</i>	9B5	<i>By Classification</i>
	<i>Note.—Divide as "9j</i>		<i>By Administrative classification</i>
	<i>By Type of population cluster"</i>	9J	Not carried
	<i>(Illustrative)</i>		Objects found
9s35	Suburban		<i>By Industrial classification</i>
9s5	City		<i>(Note.—This term denotes the standard Industrial Classification of goods).</i>
9t	Special destination	9MZ	<i>By Special property</i>
	<i>Note.—Divide as "K</i>	9N	Dangerous
	<i>Special destination"</i>	9P	Inflammable
	<i>(Illustrative)</i>	9Q	Corrosive
9t41	Market	9B	Explosive
9t55	Exhibition		

9S	Evaporative	E53	Triweekly
9T	Deliquescent	E7	Daily
9U	Efflorescent	E77	Many times a day
9X	<i>By Gross form/State</i>	G	<i>By Distance to be covered</i>
9X1	Solid		(Km)
9X2	Slurry	GB	Short (Upto 50)
9X4	Semi-solid	GC	Medium (Over 50, less 500)
9X5	Liquid		Long (Over 500, less 5,000)
9X8	Gas	GE	Very long (Over 5,000)
9(0)	<i>By Kind of commodity (goods)</i>	GF	
	<i>Note.—Division by (SD)</i>	J	<i>By Destination</i>
	<i>(Illustrative)</i>		<i>Note.—Divide as</i>
9(D)	Engineering goods		"9j By Type of population cluster"
9(D841,5)	Motor vehicle		<i>(Illustrative)</i>
9(F)	Chemical	J35	Suburban
9(F8,3)	Food	J5	City
9(J)	Agricultural products	K	Special destination
9(J,381)	Rice	K2	Office
9(KX)	Animal	K41	Market
aZ	Special Components for Compound Commodity Isolates (SpC)	K45	Fair
		K5	Exhibition
		K7	Picnic spot
b	Raw material	K8	Tourist spot
c	Finished goods	K( )	Other
f	Industrial products		<i>Note.—Division by (SD)</i>
f5	Company merchandise		<i>(Illustrative)</i>
g	Household goods	K(D4,38)	Airport
	<i>(Illustrative examples of Compound Commodity Isolates)</i>	N	<i>By Number of passengers</i>
		N1	Single
9(0=b)	Raw materials	NC	Family
9(F=b)	Chemical raw materials	ND	Party
9(J=f 5)	Company agricultural merchandise	P	<i>By Class of travel</i>
			<i>Note.—Divide as "zr</i>
			<i>By class provided"</i>
AZ	<i>By Attributes of passenger</i>		<i>(Illustrative)</i>
B	Passenger	P1	Luxury
		PC	Second class
C	<i>By Stage of travel</i>	PD	Third
C1	Arriving		
C5	Departing	Q	<i>By Distance from residence</i>
C6	In transit		Short
C8	Transfer	QB	Medium
		QC	Long
E	<i>By Frequency of travel</i>	OD	
E1	Annual		
E2	Seasonal	R	<i>By Personal transport</i>
E3	Monthly	R1	Single car household
E4	Fortnightly	R7	Multicar household
E5	Weekly	R8	Car-saturated household
E52	Twice-weekly		

<b>S</b>	<b>By Residence</b>	<b>4</b>	<b>Restriction</b>
	<i>Note.—Divide as</i>	<b>41</b>	<b>By Vehicle</b>
	"9j By Type of population cluster"	<b>413</b>	Speed
	<i>(Illustrative)</i>	<b>414</b>	Direction
<b>S35</b>	Suburb	<b>4145</b>	One-way
<b>S5</b>	City	<b>4147</b>	Round about
		<b>415</b>	Omni-Weight
<b>V</b>	<b>By Category of passenger</b>	<b>416</b>	Size
<b>VB</b>	Official	<b>4161</b>	Length
<b>VC</b>	Military	<b>4162</b>	Width
<b>VD</b>	Workman	<b>4163</b>	Height
<b>VF</b>	Student		
<b>VG</b>	Child	<b>42</b>	<b>By Passenger attribute</b>
<b>VK</b>	Pilgrim		<i>Note.—Divide as "B</i>
<b>VM</b>	Tourist		to X( ) By Attributes
<b>VP</b>	Emigrant		of passenger" in (1P1)
<b>VQ</b>	Missionary		<i>(Illustrative)</i>
<b>VR</b>	Foreigner	<b>42GD</b>	Long distance travel
<b>V(L)</b>	Patient	<b>42VB</b>	Official
	<i>Note.—Division as for "L Medicine"</i>	<b>42VM</b>	Tourist
	<i>(Illustrative)</i>		
<b>V(L;421)</b>	Tuberculous patient	<b>43</b>	<b>By Goods</b>
<b>V(L;47)</b>	Surgical patient	<b>431</b>	Size
<b>X( )</b>	Special category	<b>432</b>	Bulk
	<i>Note.—Division by (SD)</i>	<b>438</b>	Storage
	<i>(Illustrative)</i>	<b>4383</b>	Maximum weight
		<b>4385</b>	Minimum weight
<b>X(MY)</b>	Sportsmen	<b>44</b>	<b>By Waiting</b>
<b>X(Y;45)</b>	Criminals	<b>441</b>	Waiting prohibited
<b>X(YX)</b>	Social workers	<b>442</b>	For safety
		<b>446</b>	Short period
	<b>(IM) Isolates</b>		
		<b>45</b>	<b>By Parking</b>
<b>3</b>	<b>Function</b>	<b>451</b>	Time
<b>31</b>	Arrival	<b>453</b>	Date
<b>32</b>	Departure	<b>455</b>	Place
<b>33</b>	Movement		
<b>34</b>	Stop	<b>46</b>	<b>By Traffic noise</b>
<b>341</b>	Station	<b>462</b>	Residential area
<b>342</b>	Post	<b>464</b>	Hospital area
<b>343</b>	Exceptional stop		
<b>344</b>	Transshipment point	<b>48</b>	<b>By Obstruction to thoroughfare</b>
<b>346</b>	Irregular		Entrance
<b>348</b>	Emergency	<b>481</b>	Exist
<b>3483</b>	Beaching sand	<b>485</b>	Special
<b>35</b>	Inspection	<b>488</b>	
<b>36</b>	Financial		
<b>37</b>	Care and facility	<b>5</b>	<b>Service</b>
<b>371</b>	Accommodation	<b>50Z</b>	<b>By Environment</b>
<b>373</b>	Food supply	<b>51</b>	Fog. Mist. Haze
<b>374</b>	Entertainment	<b>52</b>	Rain
<b>375</b>	Hygiene	<b>53</b>	Cold
<b>376</b>	Medical aid	<b>54</b>	Snow. Hail
<b>377</b>	Baby care	<b>55</b>	Thaw condition
<b>38</b>	Travel arrangement	<b>56</b>	Slippery surface

5B	Storm. Gale, etc	6zaZ	<i>By Route and distance</i>
5D	Difficult start	6zb	Common route
5F	Bad road surface	6zc	International route
5F1	Sudden change	6zd	Long distance route
5F6	Route	6ze	Local transport route
5H	Scheduling	6zf	Transit route
5N	Inadequate personnel	6zg	Return
	Under accident	6zh	Round trip
6	<b>Cost</b>	6zm	Water transport
6b	Total cost. Gross cost	6zp	Air-lift
6d	Net cost		
6e	Operating cost	6z0	<i>By Class of travel</i>
6e3	Per seat mile		<i>Note.—Divide as "zr</i>
6e5	Movement cost per ton		<i>By Class provided" in</i>
6g	Tangible cost		<i>(IP1)</i>
6h	Tariff. Cost price		<i>(Illustrative)</i>
6j	Fixed rate	6z1	Luxury
6j1	Fixed amount	6zF	First class
6j2	Proportional to distance	6zG	Second class
6j21	Mileage rate	60	<i>By Category of passenger</i>
6j22	Rate for excess distance		<i>Note.—Divide as "V</i>
6j3	Blanket rate		<i>By Category of passenger" in</i>
6j35	Chartered rate. Contract rate	60B	<i>passenger" in (IP1)</i>
6j4	You-drive-it rate. Hire	60G	<i>(Illustrative)</i>
6j5	Total trip cost	60M	Official
6j6	Out-of-pocket cost		Child
6j7	Special plan rate	61	Tourist
6j71	Payment in instalment		
6j73	Travel-now-and-pay-later		<i>By Type of service</i>
6m	<b>Rate for Passenger</b>	61U	<i>Note.—Divide as</i>
6mZ	<i>By Frequency of travel</i>	61W	<i>"OU to OX"</i>
6n	Season ticket	62	<i>in (IP1)</i>
6n1	One line		<i>(Illustrative)</i>
6n2	District. County		Passenger service
6n4	Region	63	Mail
6n6	Single journey	63B	
6n8	Return journey	63D	<i>Baggage rate</i>
6p	Other	63E	<i>T (A3) into (A2) begins</i>
6qZ	<i>By Time of journey</i>	64	<i>By Speed of transport</i>
6r1	Day		Slow
6r2	Night		Fast
6r4	Holiday rate		Rush
6r6	Holiday season		
6s	Special purpose	64F	<i>By Class of journey</i>
6s41	Market	64G	<i>Note.—Divide as</i>
6s45	Fair		<i>"zr By Class provided</i>
6s5	Exhibition	65	<i>ed" in (IP1)</i>
6s8	Tour		<i>(Illustrative)</i>
6sB	Packet programme		First class
			Second class
			<i>By Location in vehicle</i>
			<i>Note.—Divide as</i>
			<i>"dR By Position of</i>

	baggage** in (1P1)	69J	Surcharge
	(Illustrative)	69P	Free transport
		69R	Free trip
651	Front		
65E	Cabin	6B	Goods rate
65F	Luggage compartment		Note.—Divide as
			** 6m Rate for passenger**
66	<i>By Kind of baggage</i>		(Illustrative)
66b	Suit case		Long distance haul
66c	Box	6Bzd	Transport in passenger line
66g	Bedding	6B1U	
66m	Attache case		
66p	Bundle		
66r	Packet		Note.—The following in addition
			B) Consignor/Consignee status
66t	Personal item	6D	Note.—Divide as
66u	Handbag		** V By Category of passenger**
66v	Umbrella		(Illustrative)
66x	Dress. Clothing		Official
66( )	Other		Military
	Note.—Division by		
	(SD)	6DB	
	(Illustrative)	6DC	
66(DR,77)	Radio		<i>By Value of goods</i>
66(II)	Plants	6E	No value
66(KX,5)	Pet	6EO	Low
		6EB	Medium
67	<i>By Whether owner accompanied</i>	6EC	High
		6EF	
671	Owner accompanied baggage	6G	<i>By Storage and in-transit facility</i>
			Wagon
676	Unaccompanied baggage	6G1	Refrigerated carriage
		6G5	Warehousing
		6G6	Other
		6G8	
68	<i>By Type of service</i>		<i>By Special attributes of goods</i>
	Note.—Divide as		Note.—Divide as
	"OU to OX" in (1P1)	6J	** 9n to 9( ) By Attributes of goods** in (1P1)
	(Illustrative)		(Illustrative)
68U	Passenger service		Fibre material
68W	Mail		Explosive
			Gas
69a	<i>By Weight</i>		Engineering goods
69AZ	Other Passenger/Baggage cost	6Jz4	
69B	Sleeper	6JR	
69C	Cabin	6JX8	
69E	Coupe	6J(D)	
69F	Reservation	6L	<i>By Special rate</i>
69F1	Seat	6L1	Bulk rate
69F2	Sleeper	6L2	Group rate
69F3	Cabin	6L4	Rush goods
69F4	Coupe	6L5	Subject to tonnage condition
69F5	Compartment		with restricted responsibility
69F7	Carriage	676	Dead freight
69G	Charter		
69H	Special	6L7	



		75	Preference of mode
MZ	<i>By Location of goods etc</i>		<b>Management factor</b>
N	<i>Point of charging</i>	8	Traffic flow
6N11	FOB	81	Traffic density
6N12	FOR	811	Classification
6N13	FIC	82	Coordination
6N15	CIF	83	Traffic distribution
6N2	Ex-godown	84	Market share
6N3	Ex-station	85	Viability
6N5	Ex-port	86	Quality of service
6N6	Ex-barge	87	Maintenance
		88	Depreciation
6P	Through route and joint rate	884	Abandonment
		885	Utilisation
6P1	Between motor and carrier	887	Technological factors
		8B	Support and sponsorship
6P2	Between railways	8H	
6P3	Between railway and water carrier		<i>Note.—Divide as</i>
6P5	Between water carriers		"Oh By Kind of Ownership/Support"
6Q	Tapered rate		in (1P1)
6R	Umbrella rate		(Illustrative)
6S	Minimum rate		Government
6S6	Exemption from minimum rate	8H3	Private Party
		8HB	
6V	Additional charges etc	8M	Merger
6Vb	Registration		Deficiency. Inadequacy. Problem.
6Vc	Prepaid reply	94	Damage
6Vd	Correspondence etc		Due to environment
6Ve	Reimbursement of cost		<i>Note.—Divide 94 as</i>
6Vj	Insurance	940Z	"5 Service" in (1M)
6Vm	Loading		(Illustrative)
6Vn	Transhipment		Due to rain
6Vp	Unloading		Due to bad road
6Vr	Storage	942	Due to accident
6Vs	Demurrage	94D	
6Vt	Terminal charge	94N	
6Vu	Port charge		(IE) Isolates
6X	Special charge		Determination. Calculation
6X1	Loading port	b1	Designing
6X2	Delivery		Estimation
6X3	Making up carrier	b2	Analysis. Experiment.
6X7	Bonus to captain	b6	Evaluation
		f 3	Survey
6XB	Customs, Inspection etc	g	
		u	(2M) Isolates
6XC	Custom duty		Method for costing
6XE	Toll		Method for service evaluation
6XG	Local tax	3	Method for "Market share" and "Traffic flow" analysis
6XH	Octroi	5	Method for "Area service" analysis and survey"
6XK	Sales tax		
6XM	Inspection	6	
7	<b>Customer-carrier relation</b>		
71	Demand for travel	7	
73	Trip-making potential		

	<i>Speciators for the (2M)</i>		<i>service evaluation</i> <sup>1</sup>
	Method Isolates	zb	Time differential
		zc	Link travel time
	<b>For "3 method of costing"</b>	ze	Maximum pick-up time
zb	Operating speed	zg	Shape of area covered
zc	Generating speed	zj	Frequency of call
zd1	Time value	zh	Carrier capacity
zd3	Total time for trip	zm	Facility cost
ze	Accident potential	zp	Community impact
zf	Point-of-trip origin	zp1	Travel time
zg	Line length	zp2	Waiting time
zg4	Subway length	zp3	Walking distance
zh	Trip length	zp5	Riding distance
zi	Feeder route length	zr	Discriminatory service
zk	Weight-distance	zr1	Place
zm	Discrimination with other modes	zr2	Commodity
		zr3	Service
zn	Traffic pattern	zr4	Lower price. Under-pricing
zn1	Passenger		Personal
zn2	Goods	zr7	Service quality
zp	Station spacing	zs	
zr	Under-pricing		
zr1	Equalisation factor		<b>For "6 Method for Market Share" and "Traffic Flow analysis"</b>
zs	Transport mode combination		Commodity classification
zs1	Automobile-railway	zb	Number of vehicles
zs2	Railway-ship		Weight of shipment
zt	Passenger loading	ze	Length of haul
zv	Running expenditure	zj	Weight-distance
zv1	Wage	zh	Kind of rate
zv5	Fuel cost	zm	
zx	Peak-off differential	zp	
z1	Returning empty		<b>For "7 Method for Area service analysis and survey"</b>
z2	Fair value		Population density
z3	Fair return		Number of vehicles available
z61	Rate for passenger		Geographic location
z62	Rate for baggage	zb	
z63	Rate for goods	ze	
	<b>For "5 Method for</b>	zk	

## 8 Examples

### 81 NOTE

1 Some of the subjects of the documents cited in the Classified Part in Sec 82 were found to be multifocal. As the examples given in Sec 82 are meant mainly to demonstrate the method of constructing Class Number with the depth schedule, each and every subject dealt with in a document is not included in the list of examples. Only one or two subjects have been selected from a document.

2 Several of the documents mentioned in the examples in Sec 82 are papers contributed to the meetings of the Highway

Research Board (USA). In such cases, the reference is given to the *Highway research abstracts* only.

3 A large number of the (IN) representing different ideas may be constructed using the Numerical Device (ND). Unlike in the case of the other devices — such as, (AD) and (SD) — instruction is not given in the schedule to use (ND). However, the (ND) may be used wherever the (IN) is to represent a quantitative measure.

*Example :*

1	0C25	25 Carriers
2	9rC105	105 kM haul
3	9vC25	25 CuM volume of goods
4	9xB55	55 Kg of goods
5	GC60	60 KM distance

4 To economise printing space, the alphabetical index to subjects of the examples (Class Index Entries) is not given.

## 82 CLASSIFIED ENTRIES

### XX,D74 Transport Economics

- XX,D74.44-0(F8,182) TRANSPORT ECONOMICS, INDIA, IRON AND STEEL BELT
- 1 N66 APPLIED ECONOMICS (National Council for—Research). Transport requirements of iron and steel belt. 1966.
- XX,D74;6:b1;3-(BT):g TRANSPORT ECONOMICS, COST, DETERMINATION, METHOD USING STATISTICAL CALCULUS, EVALUATION
- 2 N61 MEYER (J R) AND KRAFT (G). Evaluation of statistical costing techniques as applied in the transportation industry. (Amer econ rev. 51;1961; 30-40).
- XX,D74;6b&j84.73 TRANSPORT ECONOMICS, TOTAL COST *in relation to* TRAFFIC DISTRIBUTION, USA
- 3 N55 EDWARD (F K). Application of market pricing factors in the division of traffic according to principles of economy and fitness. (Amer econ rev. 45;1955;621-32).
- XX,D74;75:f3;6-(B2493) TRANSPORT ECONOMICS, PREFERENCE OF MODE, ANALYSIS, METHOD USING FACTOR ANALYSIS
- 4 N66 HILLE (S J). Consumer preference in transportation. (Highway res abstr. 36;1966; P27).
- XX,D74;8 TRANSPORT ECONOMICS, MANAGEMENT FACTORS
- 5 N68 SEIFERT (W W), BREUNING (S M) and KATTANEH (A). Investing in the future of transportation. (Harvard busin rev. 1968 Jul-Aug; 4-12).
- XX,D74-035-0h3.73'N6 TRANSPORT ECONOMICS, INTER-CITY, GOVERNMENT SUPPORTED, USA, 1960s
- 6 N67 SORSBY (W Q). American city 1967. Nationwide inventory of governmental mass transit facility. (Report SD-1084. 1967 April) (Highway res abstr. 37; 1967 Oct; P1).

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- 7 N67 XX,D74-1-z(8-G2).7351,N8 TRANSPORT ECONOMICS, LAND-TRANSPORT, VTOL AIRCRAFT, CALIFORNIA, 1980s  
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- 8 N68 XX,D74-2-z(4C);6&cXX,D74-33-z(4T);6.73 TRANSPORT ECONOMICS, ROAD TRANSPORT, BUS SERVICE, COST compared with RAILWAY TRAIN SERVICE, COST, USA  
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- 9 N68 XX,D74-2-z(4C);6-b1;3-zl-zg4-zg2 TRANSPORT ECONOMICS, ROAD TRANSPORT, BUS SERVICE, COST, DETERMINATION, METHOD-USING PASSENGER LOADING, SUBWAY LENGTH, AND LINE LENGTH
- 10 N57 XX,D75-21;6&j6XE TRANSPORT ECONOMICS, HIGHWAY TRANSPORT, COST in relation to TOLL RATE  
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- 11 N60 XX,D74-33;5&gZ,73,N6 TRANSPORT ECONOMICS, RAILWAY TRAIN, SERVICE influenced by LAW, USA, 1960s  
 NELSON (J C). Effects of public regulation on rail-road performance. (Amer econ rev. 50;1960;495-505).
- 12 N67 XX,D74-51-031-0h3.56,N6 TRANSPORT ECONOMICS, INLAND-WATERWAY TRANSPORT, INTERSTATE SERVICE, GOVERNMENT SUPPORTED, GREAT BRITAIN, 1960s  
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- 13 N67 XX,D74-8-z(8-DE);8H31.73 TRANSPORT ECONOMICS, AIRWAY TRANSPORT, SUPERSONIC AIRCRAFT, CENTRAL GOVERNMENT SUPPORT, USA  
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- 15 N67 XX,D74-9j3-1.73'N6i5 TRANSPORT ECONOMICS, URBAN AREA, LAND TRANSPORT, USA, 1960s, PLAN  
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- 16 N67 XX,D74-9j3-2&gCZ TRANSPORT ECONOMICS, URBAN AREA, ROAD TRANSPORT influenced by TECHNOLOGY  
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- 17 N67 XX,D74-9n.79164,N5 TRANSPORT ECONOMICS, GOODS TRANSPORT, COLOMBIA, 1950s  
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- XX,D74-9n-6L1;6S6 TRANSPORT ECONOMICS, GOODS TRANSPORT, BULK RATE, EXEMPTION FROM MINIMUM RATE
- 18 N63 ALEXANDER (D) AND MOSES (L N). Competition under uneven regulation. (Amer econ rev. 53;1963;466-73).
- XX,D74-9n-09F TRANSPORT ECONOMICS, GOODS TRANSPORT, CONTAINERISATION
- 19 N68 CONFERENCE SESSION on containerization. (Highway res abstr. 38;1968; P28).
- XX,D74-9n-33;6:b1;3-zm TRANSPORT ECONOMICS, GOODS TRANSPORT, RAILWAY TRAIN, COST, DETERMINATION, METHOD OF DISCRIMINATION WITH OTHER MODES
- 20 N57 HEALY (K T). Discriminatory and cost-based railroad pricing. (Amer econ rev. 47;1957;430-40).
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- 21 N68 FLEMING (D K). Independent transport carrier in ocean tramp trades. (Econ geog. 44;1968;21-36).
- XX,D74-9(0=f)-21-035;85;a86U:f3;6-zm TRANSPORT ECONOMICS, INDUSTRIAL PRODUCTS, HIGHWAY TRANSPORT, INTER-CITY SERVICE, MARKET SHARE, REGIONAL VARIATION, ANALYSIS, METHOD USING WEIGHT-DISTANCE FACTOR
- 22 N66 CHUR (D E). Impact of size and distance on inter-city highway share of transportation of industrial products. (Highway res abstr. 36;1966; P26).
- XX,D74-9(0=a);7 TRANSPORT ECONOMICS, HOUSEHOLD GOODS TRANSPORT, CUSTOMER-CARRIER RELATION
- 23 N66 RIVERS (R L). Moving household goods: Customer-carrier relation. (Q rev econ bus. 6;1966; 31-9).
- XX,D74-9(F8,555)-1-z(7).55 TRANSPORT ECONOMICS, PETROLEUM TRANSPORT, LAND ROUTE, PIPELINE CARRIER, GERMANY
- 24 N67 WALLER (P P) AND SWAIN (H S). Changing patterns of oil transportation and refining in Germany. (Econ geog. 43;1967; 143-56).
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- 27 N66 PREFERENCE OF MODE, ANALYSIS, METHOD OF LEAST SQUARES  
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- 28 N67 BRUGGEMAN (J W) AND HEATHINGTON (K W). Sensitivity to various parameters of a demand-scheduled bus system; Computer simulation model. (Highway res abstr. 37;1967; P35).  
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- 29 N67 IN EUROPE you can take it with you. (Railway age. 162, N10; 1967, Mar 13; 24-6).  
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- 30 N68 TOPHAM (N). Road passenger transport in un-remunerative area. (Yorkshire bul econ soc res. 20;1968, May; 1-12).  
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- 31 N67 BROWN (S R L) AND WATKINS (W S). Demand for air travel. (Highway res abstr. 37;1967; P26).  
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- 32 N67 LAMBERT (J L). Air cushion vessel : Mass transportation demonstration project. (Highway res abstr. 37;1967; P2).  
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- 33 N67 LASSOW (W). Effect of the 1966 fare increase on the level of transit riding on the New York City transit system. (Highway res abstr. 37;1967; P26).  
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- 34 N63 VICKERY (W S). Pricing in urban and suburban transport. (Amer econ rev. 53;1963;452-65).  
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b83-b33 TRANSPORT ECONOMICS, TRANSPORT OF BUSINESS MEN,  
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FACILITY, CONVENIENT SCHEDULING, INTER-CITY TRANSPORT,  
INTERNATIONAL OWNERSHIP, ELECTRIC TRAIN, 87 MPH  
AVERAGE SPEED, SEPARATE BAGGAGE ACCOMMODATION, LARGE  
SPACE PER PASSENGER, PUBLIC ADDRESS SYSTEM, TOILET FACI-  
LITY

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