**Table.6-2 VARIMAX-Rotated Components Analysis Factor Matrix**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **VARIMAX-ROTATED  LOADINGS** | | | | |  | |
| **Factor** | | | | |  | |
| **1** | **2** | **3** | **4** | **Communality** | |
| **X4**里程km | | -.243 |  | -.278 |  | .147 | |
| **X5**路面寬度 | | .269 |  | .951 | .123 | .995 | |
| **X6**路肩寬度 | |  | .170 | .394 |  | .192 | |
| **X7**小型車數 | | .969 | .119 | .189 |  | .996 | |
| **X8**大客車數 | | .625 |  | .166 | .342 | .544 | |
| **X9**大貨車數 | | .706 | .493 | .178 | -.197 | .813 | |
| **X10**全聯結車數 | | .150 | .798 |  |  | .672 | |
| **X11**半聯結車數 | | .131 | .984 |  |  | .995 | |
| **X12**機車數 | | .434 | -.211 | .127 | .864 | .995 | |
| **X13**總流量PCU | | .937 | .207 | .207 | .184 | .997 | |
| **X14**總計車公里 | | .537 |  | .146 | .277 | .391 | |
| **X15**尖峰小時交通量PCU | | .870 | .184 | .236 | .266 | .917 | |
| **X16**快車道數量 | | .357 |  | .728 |  | .667 | |
| **X17**機慢車道數量 | |  | -.208 | .396 | .247 | .261 | |
|  |  |  |  |  |  | Total | |
| Sum of Squares (eigenvalue) | | 4.24 | 2.08 | 2.07 | 1.20 | 9.59 | |
| Percentage of trace | | 30.3 | 45.1 | 59.9 | 68.4 | 68.4 | |

根據Table6.2的結果我們可以將各個Factor定義為以下名稱:

1. Factor1: 道路流量

在Factor1中可以看到在大部分的車輛數以及跟流量有關的變數均有較大的正載荷，這說明了Factor1跟整體的道路流量有關。

1. Factor2: 大車數量

在Factor2中全聯結車和半聯結車有較大的正載荷，因其兩種車型體積較大，因此將Factor2定義為大車數量。

1. Factor3: 道路寬敞度

在Factor3中跟道路寬度或是車道數量有關的變數均有較大的正載荷，因此將Factor3定義為到陸寬度。

1. Factor4: 機車數量

因Factor4僅包含機車數這一項變數，因此將Factor4定義為機車數量。

**Table.6-2 VARIMAX-Rotated Components Analysis Factor Matrix**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **VARIMAX-ROTATED  LOADINGS** | | | | |  | |
| **Factor** | | | | |  | |
| **1** | **2** | **3** | **4** | **Communality** | |
| **X7**小型車數 | | .969 | .119 | .189 |  | .996 | |
| **X13**總流量PCU | | .937 | .207 | .207 | .184 | .997 | |
| **X15**尖峰小時交通量PCU | | .870 | .184 | .236 | .266 | .917 | |
| **X9**大貨車數 | | .706 | .493 | .178 | -.197 | .813 | |
| **X8**大客車數 | | .625 |  | .166 | .342 | .544 | |
| **X14**總計車公里 | | .537 |  | .146 | .277 | .391 | |
| **X11**半聯結車數 | | .131 | .984 |  |  | .995 | |
| **X10**全聯結車數 | | .150 | .798 |  |  | .672 | |
| **X5**路面寬度 | | .269 |  | .951 | .123 | .995 | |
| **X16**快車道數量 | | .357 |  | .728 |  | .667 | |
| **X6**路肩寬度 | |  | .170 | .394 |  | .192 | |
| **X17**機慢車道數量 | |  | -.208 | .396 | .247 | .261 | |
| **X4**里程km | | -.243 |  | -.278 |  | .147 | |
| **X12**機車數 | | .434 | -.211 | .127 | .864 | .995 | |
|  |  |  |  |  |  | Total | |
| Sum of Squares (eigenvalue) | | 4.24 | 2.08 | 2.07 | 1.20 | 9.59 | |
| Percentage of trace | | 30.3 | 45.1 | 59.9 | 68.4 | 68.4 | |