

# CONTENTS

|  |     |
|--|-----|
| <b>High-Temperature Drying of Thick Concrete Slabs</b><br>by <i>H. C. Mehta, Wai F. Chen, J. A. Manson, and J. W. Vanderhoff</i><br>(Highway Division) . . . . .     | 185 |
| <b>I-70 Glenwood Canyon—Design Concept</b><br>by <i>Joseph H. Looper</i><br>(Highway Division) . . . . .   | 201 |
| <b>Entropy Model and Intercity Modal Split in UK</b><br>by <i>Gerald R. Leake and John R. Underwood</i><br>(Urban Transportation Division) . . . . .                 | 215 |
| <b>The Resurgence of Light Rail Transit</b><br>by <i>Martin Lenow</i><br>(Urban Transportation Division) . . . . .   | 229 |
| <b>Traffic Generation from Land Development Proposals</b><br>by <i>Satish C. Sharma and Afifi H. Soliman</i><br>(Urban Transportation Division) . . . . .            | 243 |
| <b>Effect of Energy Shortage and Land Use on Auto Occupancy</b><br>by <i>Jahanbakhsh Behnam and Robert E. Beglinger</i><br>(Urban Transportation Division) . . . . . | 255 |
| <b>Regional Transport Development and Economic Growth</b><br>by <i>Kenneth A. Brewer and Robert O. Richards, Jr.</i><br>(Highway Division) . . . . .                 | 271 |

→

---

This Journal is published quarterly by the American Society of Civil Engineers. Publications office is at 345 East 47th Street, New York, N.Y. 10017. Address all ASCE correspondence to the Editorial and General Offices at 345 East 47th Street, New York, N.Y. 10017. Allow six weeks for change of address to become effective. Subscription price to members is \$6.00. Nonmember subscriptions available; prices obtainable on request. Second-class postage paid at New York, N.Y. and at additional mailing offices. TE.

The Society is not responsible for any statement made or opinion expressed in its publications.

|  |     |
|--|-----|
| <b>Cable-Stayed Versus Classical Suspension Bridge</b><br>by <i>Walter Podolny, Jr.</i><br>(Highway Division) . . . . .  | 291 |
| <b>Airport Upgrading Versus Landing Gear Optimization</b><br>by <i>Fletcher H. Griffis, Jr. and M. A. Gammon</i><br>(Air Transport Division) . . . . .               | 313 |
| <b>Cost Effectiveness Maintenance-Management Systems</b><br>by <i>Gary N. Shofner</i><br>(Highway Division) . . . . .  | 331 |
| <b>Bicycle Accidents in the City of Milwaukee</b><br>by <i>Zuhair Abou-Loghd, Arun Chatterjee, and Kumares C. Sinha</i><br>(Urban Transportation Division) . . . . . | 347 |
| <b>Structural Design of Space Telescope</b><br>by <i>Gerald W. Arnts, Jr.</i><br>(Technical Council on Aerospace) . . . . .  | 363 |
| <b>Contribution to Selection of Railroad Ballast</b><br>by <i>Paul N. Gaskin and Gerald P. Raymond</i><br>(Urban Transportation Division) . . . . .                  | 377 |
| <b>Modeling Social Impacts of Urban Highways</b><br>by <i>David C. Colony and Abul B. Shah Alam</i><br>(Highway Division) . . . . .                                  | 395 |
| <b>Transportation, Land Use, and Air Quality Programs</b><br>by <i>Charles E. Dare</i><br>(Highway Division) . . . . .   | 411 |
| <b>High-Accident Spot-Improvement Program</b><br>by <i>Kenneth R. Agent, John A. Deacon, and Robert C. Deen</i><br>(Highway Division) . . . . .                      | 427 |

---

DISCUSSION

Proc. Paper 12094

---

|   |     |
|---|-----|
| <b>Significance of Variably Confined Triaxial Testing</b> , by John J. Allen<br>and Marshall R. Thompson (Nov., 1974. Prior Discussion: Nov.,<br>1975).<br><i>closure</i> . . . . . | 449 |
|---|-----|

**Mode Choice Estimation for Small Urban Areas**, by Arun Chatterjee  
and Kumares C. Sinha (May, 1975).

*errata* . . . . . 450

INFORMATION RETRIEVAL

The key words, abstract, and reference "cards" for each article in this Journal represent part of the ASCE participation in the EJC information retrieval plan. The retrieval data are placed herein so that each can be cut out, placed on a 3 × 5 card and given an accession number for the user's file. The accession number is then entered on key word cards so that the user can subsequently match key words to choose the articles he wishes. Details of this program were given in an August, 1962 article in CIVIL ENGINEERING, reprints of which are available on request to ASCE headquarters.