

# CONTENTS

<b>Airfield Pavement Load Evaluation—An International Overview</b> <i>by G. D. Bell</i> (Air Transport Division) . . . . .	531
<b>Proposed Load Evaluation System for U.S. Air Force</b> <i>by Glenn T. Baird and John P. Nielsen</i> (Air Transport Division) . . . . .	537
<b>Transport Canada Airfield Pavement Load Evaluation</b> <i>by Laurie B. R. Hunter, Glenn H. Argue, and Andrew C. Gamble</i> (Air Transport Division) . . . . .	545
<b>French Procedures for Airfield Pavement Load Evaluation</b> <i>by Didier Lacroix</i> (Air Transport Division) . . . . .	559
<b>Airfield Pavement Evaluation—The Airline View</b> <i>by Charles Philip Weisz</i> (Air Transport Division) . . . . .	575
<b>Airfield Pavement Evaluation—FAA Viewpoint</b> <i>by Leonard E. Mudd</i> (Air Transport Division) . . . . .	581
<b>Pavement Strength Rating Methods as Viewed by Airframe Manufacturers</b> <i>by William A. Woodcock</i> (Air Transport Division) . . . . .	587

→

---

This Journal is published bimonthly 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 \$10.00. Nonmember subscriptions available; prices obtainable on request. Second-class postage paid at New York, N.Y. and at additional mailing offices. EE, EM, TE.

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

<b>Structural Performance of Cast-in-Place Pipe</b> <i>by Robert Y. Bush and Javed S. Chak</i> (Pipeline Division) . . . . .	605
<b>Performance Evaluation of Traffic Actuated Signals</b> <i>by Panos G. Michalopoulos, Betty Papapanou,</i> <i>and Edward B. Binseel</i> (Highway Division) . . . . .	621
<b>Thermal Infrared Imagery Use in Urban Energy Surveys</b> <i>by J. E. Colcord</i> (Aerospace Division) . . . . .	637
<b>Model of Aircraft Passenger Acceptance</b> <i>by Ira D. Jacobson</i> (Air Transport Division) . . . . .	653
<b>Case Study of Buffalo's Rail Transit Development</b> <i>by Thomas M. Wilson</i> (Urban Transportation Division) . . . . .	665
<b>Patronage Forecasting for Downtown People Movers</b> <i>by Murthy V. A. Bondada and Robert J. Dietz</i> (Urban Transportation Division) . . . . .	677
<b>Comparison of Rapid Transit Planning Efforts</b> <i>by Carl R. West and Wes R. Frysztacki</i> (Urban Transportation Division) . . . . .	695
<b>Environmental Impacts of BART and People's Responses</b> <i>by Donald L. Graff and Robert L. Knight</i> (Urban Transportation Division) . . . . .	713
<b>Effectiveness Measures for Airport Departure Curbs</b> <i>by Chee-Yun Mo and John P. Braaksma</i> (Air Transport Division) . . . . .	731
<b>Optimal Road Network</b> <i>by George H. Sotiropoulos</i> (Highway Division) . . . . .	745
<b>Coal Transportation Research and Information Needs</b> <i>by Ronald W. Eck and Ching Y. Hui</i> (Highway Division) . . . . .	757

---

DISCUSSION  
Proc. Paper 13982

---

**Scheduling of Drawbridge Operations,<sup>a</sup>** by Ira S. Kuperstein (Nov., 1977).  
by *A. Reed Gibby* . . . . . 771

**Community Noise Study for Railroad Relocation,<sup>a</sup>** by Robert B. Jacko and Dana L. Hall (Nov., 1977).  
by *John D. A. Neil* . . . . . 772

**Optimum Spacing of Supply Centers,<sup>a</sup>** by Marvin Gates and Amerigo Scarpa (Nov., 1977. Prior Discussion: July, 1978).  
by *Michael E. Meadows* . . . . . 772

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.

---

<sup>a</sup>Discussion period closed for this paper. Any other discussion received during this discussion period will be published in subsequent Journals.