

# CONTENTS

Papers	Page
<b>PUBLIC WORKS AND THE ENVIRONMENT</b> by George H. Andrews (Highway Division) . . . . .	1
<b>PIPELINE TRANSPORTATION IN THE 70'S</b> by Marshall U. Bagwell (Pipeline Division) . . . . .	5
<b>TRAFFIC DATA FOR CONCRETE PAVEMENT DESIGN</b> by E. Guy Robbins and Cloyd E. Warnes (Highway Division) . . . . .	17
<b>MODIFICATION OF MAJOR CORRIDOR LOCATION CRITERIA</b> by George D. Barnes (Highway Division) . . . . .	31
<b>BENEFIT-COST ANALYSIS OF DELAY REDUCTION WITH STOL</b> by Joan B. Barriage and Stanley P. E. Price (Air Transport Division) . . . . .	43
<b>COMPUTER SIMULATION OF SUBWAY ENVIRONMENT</b> by Thomas E. Hoover, Woodrow W. Hitchcock, William D. Kennedy, and James W. Guinan (Urban Transportation Division) . . . . .	53
<b>COMPUTERIZING PIPELINE DESIGN</b> by William D. Hudson (Pipeline Division) . . . . .	73

(over)

---

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 \$4.00. 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.

	Page
<b>PRICING IN MASS TRANSPORTATION</b>	
by Masatoshi A. Abe and Kumares C. Sinha (Urban Transportation Division) . . . . .	83
<b>STRUCTURAL MODEL STUDIES OF LARGE PIPE BIFURCATION</b>	
by William G. Godden (Pipeline Division) . . . . .	93
<b>ENERGY-INTENSIVENESS OF TRANSPORTATION</b>	
by Eric Hirst (Urban Transportation Division) . . . . .	111
<b>PERFORMANCE TESTING OF FREEWAY NOISE BARRIERS</b>	
by Milton D. Harmelink and Jaroslav J. Hajek (Highway Division) . . . . .	123
<b>THE TRANS-ALASKA PIPELINE STORY</b>	
by E. L. Patton (Pipeline Division) . . . . .	139
<b>HIGHWAYS AND MODAL CHOICE</b>	
by Donald A. Morin (Urban Transportation Division) . . . . .	145
<b>COMPUTER ALGORITHM FOR ROUTING OVERSIZE TRUCKS</b>	
by Shiva K. Pant and Frederick J. Wegmann (Highway Division) . . . . .	151
<b>UNDERGROUND PIPELINE CORROSION</b>	
by William R. Kinsey (Pipeline Division) . . . . .	167

---

DISCUSSION

Proc. Paper 9526

---

<b>DENSITY ALTITUDE VARIATIONS AND RUNWAY LENGTHS</b> , by Thomas B. Davinroy (Nov., 1971). errata . . . . .	185
<b>ADVANCED ANALYSIS OF RIGID PAVEMENTS</b> , <sup>a</sup> by Sue K. Wang, Michel Sargious, and Yau K. Cheung (Feb., 1972). by Yang H. Huang . . . . .	185
<b>BENEFIT MEASUREMENTS OF HIGHWAY ELECTRONIC ROUTE GUIDANCE</b> , <sup>a</sup> by Salvatore J. Bellomo and George K. Young, Jr. (Feb., 1972). by Bernard T. Higonnet . . . . .	188

---

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

---

TECHNICAL NOTES

Proc. Paper 9529

---

URBAN TRANSPORTATION

by Murray A. Muspratt

(Urban Transportation Division) . . . . . 193