CONTENTS

Microzonation in Wind Engineering				
by Marshall Lew and Gary C. Hart		 	 	. 975
Protective Structure Response to Vehicle Impact				
by John J. Labra		 	 	. 991
Size Effects in Model Concretes?				
by Gajanan M. Sabnis and Saeed M. Mirza		 	 	. 1007
Statistical Descriptions of Strength of Concrete				
by Sher Ali Mirza, Michael Hatzinikolas,				
and James G. MacGregor		 	 	1021
Two-Way Flexure of Steel-Deck-Reinforced Slabs				
by Charles R. Kubic and J. Hartley Daniels		 	 	1039
Behavioral Study of Circular Tubular Beam—Column	18			
by Donald R. Sherman, Hacik Erzurumlu,				
and Wendelin H. Mueller		 	 	1055
Stress Analysis of Bins by Shell Bending Theory				
by Sukhvarsh Jerath and Arthur P. Boresi		 	 	1069
Meridional Imperfection in Cooling Tower Design				
by Adam Al-Dabbagh and Ajaya K. Gupta		 	 	. 1089
Finite Element Studies of Collecting Plate Systems				
by Dennis A. Nagy and David P. Billington		 	 	. 1103

This Journal is published monthly 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 \$15.00. Nonmember subscriptions available; prices obtainable on request. Second-class postage paid at New York, N.Y. and at additional mailing offices. ST.

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

Physical Model for Steel Corrosion in Concrete Sea Structures—Theory by Zdeněk P. Bažant
Physical Model for Steel Corrosion in Concrete Sea Structures—Application by Zdeněk P. Bažant
Bending Strength of Curved Glued Laminated Timber by John A. Anderson and L. G. Booth
Nonlinear Elastic Analysis of Panelized Shear Sandwich Walls by Paul Fazio and Santi Rizzo
DISCUSSION
Proc. Paper 14602
Torsional-Balanced Steel in Concrete Beams, by Madhusudan Chakraborty (Nov., 1977. Prior Discussions: June, Oct., Nov., 1978). closure
 closure
Cable Equilibrium and Stability in a Steady Wind, by John J. Russell, Joseph D. Morgan, III, and William M. Henghold, (Feb., 1978. Prior Discussion: Nov., 1978). closure
Sampling Errors in Estimation of Extreme Winds, by Emil Simiu, Jacques Biétry, and James J. Filliben (Mar., 1978. Prior Discussion: Nov., 1978). closure
Local Effects of Tornado-Generated Missiles, by Anil K. Kar (May, 1978. Prior Discussion: Mar., 1979). by John J. Healey and Samuel Weissman
^a Discussion period closed for this paper. Any other discussion received during this discussion period will be published in subsequent Journals.

Glass Curtain Wall Elements: Properties and Behavior

Finite Element Model for Masonry, by Adrian W. Page (Aug., 1978). by Anatole Longinow	15
Direct Flexural Design of Prestressed Concrete, by David S. Hatcher	
(Aug., 1978).	
by Antoine E. Naaman	16
Load and Resistance Factor Design for Steel, by Mayasandra K.	
Ravindra and Theodore V. Galambos (Sept., 1978).	
by Raymond M. L. Ting	19
LRFD Criteria for Plate Girders, by Peter B. Cooper, Theodore	
V. Galambos, and Mayasandra K. Ravindra (Sept., 1978).	
by Raymond M. L. Ting	20
LRFD Criteria for Steel-Beam Columns, by Reidar Bjorhovde,	
Theodore V. Galambos, and Mayasandra K. Ravindra (Sept., 1978).	b.
by Raymond M. L. Ting	22
High Rise Building Column Design, by Jerome S. B. Iffland (Sept.,	
1978).	
errata	24
Mean Wind Profiles and Change of Terrain Roughness, a by Jacques	
Biétry, Christian Sacre, and Emil Simiu (Oct., 1978).	
by James Counihan	25

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.

^{*}Discussion period closed for this paper. Any other discussion received during this discussion period will be published in subsequent Journals.