CONTENTS

Papers	Page
SOLUTIONS OF ELASTIC PLATES BY INVARIANT IMBEDDING by Nestor Distefano and Jaime Schujman	1349
BUCKLING OF SIMPLY SUPPORTED FOLDED PLATES by Michel L. Mikhail and Sidney A. Guralnick	1363
DYNAMIC RESPONSE OF CIRCULAR FOOTINGS by Juan E. Luco and Russell A. Westmann	1381
NONLINEAR BUCKLING ANALYSIS OF SANDWICH ARCHES by Parviz Sharifi and Egor P. Popov	1397
BEARING CAPACITY OF CONCRETE BLOCKS by Wilfred F. Chen and Sergio Covarrubias	1413
STRUCTURE-GROUND INTERACTION IN EARTHQUAKES by Johann H. Rainer	1431
TORSION OF MULTILAYERED RECTANGULAR SECTION by John R. Booker and Sritawat Kitipornchai	1451
DYNAMIC STABILITY OF TUBE CONVEYING FLUID by Shoei-sheng Chen	1469
NONLINEAR ANALYSIS OF INSTABILITY IN TENSION by Sam Tang	1487
ANALYSIS OF STRUCTURES BY QUADRATIC PROGRAMMING by Mehdi S. Zarghamee	1495
FINITE ELEMENT METHOD: A GALERKIN APPROACH by Stanley G. Hutton and Donald L. Anderson	1503
(over)	

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 is \$10.00 per year with discounts to members and libraries. Second-class postage paid at New York, N.Y. and at additional mailing offices. EM, SA.

	1	Page
TORSIONAL VIBRATIONS OF CONICAL FRU by Surendra R. Shah and David J. McGill .		1521
IRREGULAR SHAPED PLATES WITH SINGUI by David H. Geiger	_ARITIES 	1533
DISCUSSION		
Proc. Paper 84	06	
LAGRANGIAN FORMULATION OF STATICS Jagannath P. Shrivastava and Peter G. Glocki	ner (Oct., 1970).	1557
YIELDING IN FRAMED STRUCTURES UNDE LOADS, by Navin C. Nigam (Oct., 1970). errata	R DYNAMIC	1558
POSTBUCKLING BEHAVIOR OF OPEN CYLI SHELLS, by Kuang-Han Chu and Peter Turul errata	NDRICAL a (Dec., 1970).	1558
VARIATIONAL PRINCIPLE IN FLUID DYNAME. Lemieux, Tharakkal E. Unny, and R. N. De 1970).	ubey (Dec.,	4550
BUCKLING OF OPEN CYLINDRICAL SHELL PERFECTIONS, by Peter Turula and Kuang-	S WITH IM-	1559
(Dec., 1970). errata	S INDER	1559
LATERAL LOAD, by Kuang-Han Chu and Pet (Dec., 1970).		1560
PLANE STRESS LIMIT ANALYSIS BY FINIT by Ted Belytschko and Philip G. Hodge, Jr. (E ELEMENTS, ^a Dec., 1970).	
by Raffaele Casciaro, Antonio Di Carlo an Valente	ia Giantranco	1560

	Page
TURBULENCE STRUCTURE IN PLANE COUETTE FLOW, a by James M. Robertson and Henry F. Johnson (Dec., 1970). by M. H. Abdul Khader and H. Suresh Rao	1567
FLUX DEVELOPMENT REGION IN SUBMERGED JETS, by W. Hall C. Maxwell (Dec., 1970). closure	1569
FINITE ELEMENT BENDING ANALYSIS OF REISSNER PLATES, ^a by Charles W. Pryor, Jr., Richard M. Barker and Daniel Frederick (Dec., 1970). Prior Discussions: June, Aug., 1970).	
by G. Jeyaraj Wilson and James Kirkhopeby Robert L. Taylor	1570 1571
INELASTIC BENDING OF AXISYMMETRIC SHELLS, ^a by James C. Hayes and Lawrence H. N. Lee (Dec., 1970). by Robert G. Grant, Robert L. Mann and Paul Seide	1573 1576
STEADY-STATE RESPONSE OF YIELDING SHEAR STRUCTURE, by Wilfred D. Iwan (Dec., 1970). by Ricardo Dobry	. 1577
VIBRATION OF SUPPORT EXCITED TUBES IN COAXIAL FLOW, by Stanley A. Knudson and Gerald M. Smith (Dec., 1970). by Shoei-sheng Chen	. 1579
ARTIFICIAL INTELLIGENCE IN CONTINUUM MECHANICS, a by Andrew Ka Ching Wong and George Bugliarello (Dec., 1970).	. 1583
by D. K. Rao	. 1584
BUCKLING AND VIBRATIONS OF POLYGONAL AND RHOMBIC PLATES, a by Sanford B. Roberts (Apr., 1971). by Patricio A. Laura	1587
FLEXURAL VIBRATIONS OF RECTANGULAR AND OTHER POLYGONAL PLATES, by Yau-Kai Cheung and M. S. Cheung (Apr., 1971). by Patricio A. Laura and Mario Maurizi	1588
DIRECTIONAL ANALYSIS IN MODEL DESIGN, by Fernando Vasco Costa (Apr., 1971). by William Squire	1589

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

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 x 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.

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