CONTENTS

Papers	Page
ANALYSIS OF SPACE TRUSS AS EQUIVALENT PLATE by William R. Flower and Lewis C. Schmidt	2777
ANALYSIS OF INELASTIC SUSPENSION STRUCTURES by Thomas M. Murray and Nicholas Willems	2791
TEMPERATURE RISES IN LOW-HEAT CEMENT CONCRETE by Barry P. Hughes	2807
MAIN CABLES OF NEWPORT SUSPENSION BRIDGE by Blair Birdsall	2825
MECHANICAL PROPERTIES OF STRUCTURAL CABLES by John B. Scalzi and William K. McGrath	2837
FIELD SOLUTIONS FOR SHEAR GRIDS by Donald L. Dean	2845
MODEL ANALYSIS OF CURVED BOX-BEAM HIGHWAY BRIDGE	
by Ish K. Aneja and Frederic Roll	2861
(over)	

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 is \$20.00 per year with discounts to members and libraries. Second-class postage paid at New York, N.Y. and at additional mailing offices. ST.

DISCUSSION

Proc. Paper 8557

BEHAVIOR OF SIMPLY SUPPORTED SLABS, by Murray A. Muspratt (Dec., 1969. Prior Discussions: June, Aug., 1970, Mar., 1971). closure	2881
ANALYSIS OF FOOTINGS SUBJECTED TO BIAXIAL BENDING, by German Gurfinkel (June, 1970. Prior Discussions: Oct., 1970, Feb., 1971). closure	2882
SHRINKAGE AND SHRINKAGE RESTRAINTS IN CON- CRETE PAVEMENTS, by Shigeyoshi Nagataki (July, 1970. Prior Discussion: May, 1971). closure	2883
RATIONAL DESIGN OF LIGHT GAGE BEAMS, by Jeffrey L. Bleustein and Atle Gjelsvik (July, 1970. Prior Discussions: Dec., 1970, Mar., Apr., May, 1971). closure	2884
BOUNDING OF FRAME BUCKLING LOADS, by Alfred Korn (Aug., 1970. Prior Discussions: Dec., 1970, May, 1971). closure	2885
ANALYSIS OF CURVED GIRDER BRIDGES, by Lansford C. Bell and Conrad P. Heins (Aug., 1970. Prior Discussions: Feb., June, 1971). closure	2886
BEHAVIOR OF CONCRETE UNDER VARYING STRAIN GRADIENTS, by I. Demir Karsan and James O. Jirsa (Aug., 1970. Prior Discussions: Dec., 1970, May, 1971). closure	2888
FLEXIBLE PLATE FINITE ELEMENT ON ELASTIC FOUNDATION, by Henry T. Y. Yang (Oct., 1970. Prior Discussion: May, 1971). closure	2888
NONSYMMETRIC VIBRATIONS OF THIN CYLINDRICAL SHELLS, by Chi-Wen Lin (Oct., 1970. Prior Discussions: Apr., May, 1971).	2000

	Page
RELIABILITY ANALYSIS OF FRAME STRUCTURES, by John Stevenson and Fred Moses (Nov., 1970). errata	2891
CREEP DEFLECTION OF REINFORCED CONCRETE BEAMS, by Charles A. Miller and Sidney A. Guralnick (Dec., 1970). errata	2891
COST-EFFECTIVE MATCHING OF TASK AND COMPUTING DEVICE, by Ralph E. Miller, Jr. and John McCaslin (Jan., 1971).	2892
FORMULATION OF DECISION LOGIC TABLES, by Jimmy L. Noland and Chuan C. Feng (Jan., 1971).	2892
TESTS OF GUSSET PLATE MODELS, by Desi D. Vasarhelyi (Feb., 1971).	2894
BEHAVIOR OF LATERALLY REINFORCED CONCRETE COLUMNS, ^a by Edwin G. Burdette and Hubert K. Hilsdorf (Feb., 1971. Prior Discussion: July, 1971). by V. Malakonda Reddy, K. Nagi Reddy, and S. Ramaswamy Reddy	2894
NONLINEAR ANALYSIS OF CABLE AND TRUSS STRUC- TURES, ^a by Frank Baron and Mahadeva S. Venkatesan (Feb., 1971). by John J. Jonatowski and Charles Birnstiel	2895
ECCENTRICALLY LOADED BOLTED CONNECTIONS, a by Sherwood F. Crawford and Geoffrey L. Kulak (Mar., 1971).	2900
by Neil M. Hawkins	2902
her Dom E. Donner	2905 2907
by A. Rajaraman	2911 2915 2916

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

	Page
BOLTED JOINTS UNDER SUSTAINED LOADING, a by Verl Lobb and Floyd Stoller (Mar., 1971). by Geoffrey D. Base, Christopher V. J. Simpson, Lewis C. Schmidt, Donald S. Mansell, and Leonard K. Stevens	2920
HYPOTHESIS FOR SHEAR FAILURE OF BRICKWORK, a by Bryan Stafford Smith and Clifford Carter (Apr., 1971). by Ganpat S. Pandit	2922
SUSTAINED AND CYCLIC LOADING OF CONCRETE COLUMNS, by Jostein Hellesland and Roger Green (Apr., 1971. Prior Discussion: Oct., 1971). by Narayana K. Raju	2923
NUMERICAL ERROR IN STRUCTURAL SOLUTIONS, by John R. Roy (Apr., 1971). by Robert W. Gerstner, Raymond M. Puzerewski, and Donald M. Schultz	2924
TORSION, BENDING, AND SHEAR IN PRESTRESSED CON- CRETE, by Priya R. Mukherjee and Joseph Warwaruk (Apr., 1971). by Ganpat S. Pandit	2926
STRUCTURAL RESPONSE TO SONIC BOOMS, by Roland L. Sharpe and Garrison Kost (Apr., 1971. Prior Discussion: Oct., 1971). by David H. Cheng and Jacques E. Benveniste	2928
BEHAVIOR OF CONTINUOUS CRANE RAILS, ^a by Pavel J. Marek and J. Hartley Daniels (Apr., 1971). by Robert W. Dannemann	2929

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.