

CONTENTS

Papers	Page
THEORETICAL ANALYSIS OF SUSPENSION BRIDGES by Saafan A. Saafan	1
FACTORS EFFECTING SEISMIC DESIGN OF WATER TOWERS by B. K. Ramiah and D. S. Rajata Mohana Gupta	13
DESIGN DATA FOR HIGH-YIELD-STRENGTH ALLOY STEEL by Geerhard Haaijer	31

DISCUSSION

Proc. Paper 4871

ROLE OF STRAIN HARDENING IN PLASTIC DESIGN, by Maxwell G. Lay and Paul D. Smith (June, 1965. Prior Discussion: Oct., 1965, Feb., 1966). closure	53
INFLUENCE LINES FOR BEAMS ON ELASTIC FOUNDATIONS, by K. T. Sundara Raja Iyengar and S. Anantharamu (June, 1965. Prior Discussion: Dec., 1965, Feb., 1966). closure	55
SHEAR STRENGTH OF HIGH-STRENGTH BOLTS, by James J. Wallaert and John W. Fisher (June, 1965. Prior Discussion: Feb., 1966). closure	57

(over)

This Journal is published bi-monthly by the American Society of Civil Engineers. Publications office is at 2500 South State Street, Ann Arbor, Michigan, 48104. Editorial and General Offices are at 345 East 47th Street, New York, N. Y. 10017. Subscription price is \$8.00 per year with discounts to members and libraries. Second-class postage paid at Ann Arbor, Michigan. EM, HY, SA, SM, ST.

	Page
PLASTIC BEHAVIOR OF TUBULAR BEAM COLUMNS, ^a by Timothy J. Dwyer and Theodore V. Galambos (Aug., 1965).	
errata	58
GENERALIZATION OF HARDY CROSS METHOD, ^a by Lino Quirko (Oct., 1965. Prior Discussion: Feb., Apr., 1966).	
by Allen E. Crenshaw	59
by Joseph G. Perri	64
by Frederick T. Mavis	65
by James W. Gillespie	69
ANALYSIS OF BOLTED BUTT JOINTS, ^a by John W. Fisher and John L. Rumpf (Oct., 1965).	
errata	79
DESIGN OF CONCRETE MULTIBEAM BRIDGE DECKS, ^a by Anthony R. Cusens and Ricardo P. Pama (Oct., 1965).	
by F. Sawko	79
by Pijush Kanti Som	83
by G. P. Saha	85
COMPARISON OF SIMPLIFIED THEORIES FOR FOLDED PLATES, ^a by Graham H. Powell (Dec., 1965. Prior Discussion: June, 1966).	
by Gajanan M. Sabnis	87
ANALYSIS OF NONLINEAR STRUCTURES: FORCE METHOD, ^a by Ralph M. Richard and John E. Goldberg (Dec., 1965. Prior Discussion: June, 1966).	
by J. M. Howe and J. A. Richardson	88
ANALYSIS OF CONTINUOUS FOLDED PLATE SURFACE, ^a by Fred W. Beaufait (Dec., 1965. Prior Discussion: April, 1966).	
by Morris N. Fialkow	91
by Anatol A. Eremin	92
BUCKLING OF ELASTICALLY RESTRAINED COLUMNS, ^a by German Gurfinkel and Arthur W. Robinson (Dec., 1965).	
by Sahib Zaki Al-Sarraf	92
by Anatol A. Eremin	97
TEST OF A FERRO-CEMENTO PRECAST FOLDED PLATE, ^a by Tekal Vishwanath, Ramkrishna P. Mhatre, and Keventi Seetharamulu (Dec., 1965).	
by Gajanan M. Sabnis and Richard N. White	98
ANALYSIS OF NONPRISMATIC CONTINUOUS STRUCTURES, ^a by Thomas D. Y. Fok and Thomas F. Mosure (Feb., 1966).	
by Ralph R. Mazingo	100
BRITTLINESS IN HIGH STRENGTH BOLTS, ^a by Frank L. Gill and Roger M. Hansen (Feb., 1966).	
by Geoffrey L. Kulak and John N. Fisher	102

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

	Page
ANALYSIS OF A SHEAR WALL SUPPORTED BY A BEAM, ^a by A. T. Hinkley (Feb., 1966). by Alexander P. Hrennikoff	103
STRUCTURAL ANALYSIS BY NETWORKS, MATRICES AND COMPUTERS, ^a by Steven J. Fenves (Feb., 1966). by Edward L. Wilson	106
STRENGTH OF REINFORCED CONCRETE FOLDED PLATE MODELS, ^a by Alexander C. Scordelis and Peter V. Gerasimenko (Feb., 1966. Prior Discussion: June, 1966). by N. J. Gardner	107
LIMIT DESIGN BY SUCCESSIVE MOMENT DISTRIBUTION, ^a by Carl Berwanger (Feb., 1966). by M. Z. Cohn	108
STRUCTURAL ANALYSIS OF THE HAYSTACK ANTENNA, ^a by William R. Fanning (Feb., 1966). by Jacob Feld	110

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