

CONTENTS

Papers	Page
PLASTIC ANALYSIS OF TRANSVERSELY LOADED FRAMES by Neil Jackson	2047
COST OPTIMIZATION OF STRUCTURAL ROOF SYSTEM by Samuel L. Lipson and Alan D. Russell	2057
DEFLECTION OF CIRCULAR PLATE WITH BUILT-IN EDGES by Manuel A. G. Silva and Leon M. Keer	2073
OPTIMUM BEAM LAYOUT FOR LARGE AREAS by Paul Grundy	2085
FRAMED-TUBE STRUCTURES FOR HIGH-RISE BUILDINGS by Alexander Coull and Nutan Kumar Subedi	2097
INSPECTION OF STEEL BRIDGES FOR FATIGUE DAMAGE by the Subcommittee on Inspection of Steel Bridges for Fatigue of the Task Committee on Structural Fatigue of the Structural Division	2107
ALTERNATIVE APPROACH TO LIGHT-GAGE BEAM DESIGN by James Rhodes and James M. Harvey	2119
GLOSSARY OF TERMS PERTAINING TO STRUCTURAL STEEL ENGINEERING AND DESIGN by the Ad Hoc Committee on Nomenclature, Administrative Committee on Metals of the Structural Division	2137

(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 8271

<p>HORIZONTAL THERMAL MOVEMENT OF CURVED BRIDGE DECKS,^a by Heinz G. Juhl (Oct., 1970. Prior Discussion: July, 1971). by Walter Lippoth</p> <p>AXIAL LOAD DESIGN FOR CONCRETE FILLED STEEL TUBES,^a by Robert B. Knowles and Robert Park (Oct., 1970). by Richard W. Furlong</p> <p>EARTHQUAKE RESPONSE OF ARCH DAMS,^a by Umesh Chandra Tahbildar and Hugh Tottenham (Nov., 1970. Prior Discussion: July, 1971). by Ramakrishna Narayanaswami and C. V. Girija Vallabhan</p> <p>CONCRETE BOX-GIRDER BRIDGES AS SANDWICH PLATES,^a by James G. Arendts and Wallace W. Sanders, Jr., (Nov., 1970). by S. P. Sharma and A. Rajaraman</p> <p>FATIGUE TESTS OF PRESTRESSED CONCRETE I-BEAMS,^a by John M. Hanson, Cornie L. Hulsbos, and David A. VanHorn (Nov., 1970. Prior Discussion: June, 1971). by Ganpat S. Pandit</p>	<p>2145</p> <p>2150</p> <p>2152</p> <p>2153</p> <p>2155</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------

TECHNICAL NOTES
Proc. Paper 8275

<p>EXPERIMENTAL VERIFICATION OF DISCRETE-ELEMENT SOLUTIONS FOR PALTES by Sohan L. Agarwal and W. Ronald Hudson</p> <p>CONJUGATE GRADIENT AND DECOMPOSITION—ANALOGY by Moshe F. Rubinstein</p>	<p>2159</p> <p>2165</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------

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