
Journal of the
STRUCTURAL DIVISION
Proceedings of the American Society of Civil Engineers

STRUCTURAL DIVISION
EXECUTIVE COMMITTEE

Robert D. Dewell, Chairman; Emerson J. Ruble, Vice Chairman;
George S. Vincent; Nathan D. Whitman, Jr.; Charles T. G. Looney, Secretary

COMMITTEE ON PUBLICATIONS

Henry G. Schlitt, Chairman; Mace H. Bell; Gerald F. Borrmann;
Edwin S. Elcock; Kurt H. Gerstle; John E. Goldberg; Wayne C. Lewis;
Alfred L. Parme; Philip A. Upp; Halsted N. Wilcox

CONTENTS

August, 1960

Papers

	Page
Reinforced Concrete Shear Wall Assemblies by Jack R. Benjamin and Harry A. Williams	1
Strength of Welded Aluminum Columns by R. J. Brungraber and J. W. Clark	33
Some Basic Concepts in Matrix Structural Analysis by Frank R. Berman	59

DISCUSSION

A Method of Computation for Structural Dynamics, by Nathan M. Newmark. (July, 1959. Prior discussion: January, 1960. Discussion closed.)
by Nathan M. Newmark (closure) 89

(over)

	Page
Orthogonal Gridworks Loaded Normally to their Planes, by Ignacio Martin and José Hernandez. (January, 1960. Prior discussion: None. Discussion closed.) by Ming L. Pei.	91
Continuous Girder Bridge with Variable Moment of Inertia, by Sabri Sami. (January, 1960. Prior discussion: May, 1960, July, 1960. Discussion closed.) by Valerian Leontovich	93
Properties of Steel and Concrete and the Behavior of Structures, by George Winter. (February, 1960. Prior discussion: June, 1960, July, 1960. Discussion closed.) by Henry J. Cowan	97
by Oliver G. Julian	97
Dynamic Effects of Earthquakes, by Ray W. Clough. (April, 1960. Prior discussion: None. Discussion closes September 1, 1960.) by Clarence J. Derrick	103
by G. W. Housner	107
Design of Prestressed Concrete Beams by Computer, by J. J. Bonasia. (April, 1960. Prior discussion: None. Discussion closes September 1, 1960.) by Richard J. Newson	111
Charts for Design of Reinforced Concrete Columns, by W. H. Gardner, Jr., and D. H. Kline. (May, 1960. Prior discussion: None. Discussion closes October 1, 1960.) by George B. Begg, Jr.	113

Errata	115