CONTENTS

Octahedral Based Incremental Stress-Strain Matrices by David W. Murray	501
Pressures on Curtain Wall with External Mullions by Bernard M. Leadon and Michael L. Kownacki	515
Gravity Load and Vertical Ground Motion Effects on Earthquake Response of Simple Yielding Systems by Oscar A. Lopez and Anil K. Chopra	525
Improved Stress Analysis for Cross-Tie Tracks by Arnold D. Kerr	539
Viscoplasticity of Transversely Isotropic Clays by Zdeněk P. Bažant, Atilla M. Ansal, and Raymond J. Krizek	549
Doubly Curved Membrane Shell Finite Element by Carl S. Gran and T. Y. Yang	567
Probabilistic Modeling as Decision Making by Mircea Grigoriu, Daniele Veneziano, and C. Allin Cornell	585
Lay Effect of Wire Rope by George A. Costello and Robert E. Miller	597
Post-Buckling Behavior under Mode Interaction by António J. Reis and John Roorda	609

The Society is not responsible for any statement made or opinion expressed in its publications.

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 to members is \$10.00. Nonmember subscriptions available; prices obtainable on request. Second-class postage paid at New York, N.Y. and at additional mailing offices. EE, EM, TE.

3
3
1
7
7
5
1
7
5