

ISSN 0020-7683

1991  
VOLUME 27  
NUMBER 10

INTERNATIONAL JOURNAL OF  
**SOLIDS and**  
**STRUCTURES**

Editor-in-Chief

**CHARLES STEELE**

Founder and Editor-in-Chief, 1965-1985

**GEORGE HERRMANN**



**Pergamon Press**

OXFORD · NEW YORK · BEIJING · FRANKFURT  
SÃO PAULO · SEOUL · SYDNEY · TOKYO

# INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES

*Editor-in-Chief*

CHARLES STEELE

Division of Applied Mechanics, Stanford University,  
Stanford, CA 94305, U.S.A.

Volume 27, No. 10

1991

## CONTENTS

- |                                                                |      |                                                                                                                                                                 |
|----------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Solomon Dinkevich</b>                                       | 1215 | Finite symmetric systems and their analysis                                                                                                                     |
| <b>M. D. Sharma, Rajneesh Kumar<br/>and M. L. Gogna</b>        | 1255 | Surface wave propagation in a liquid-saturated porous layer overlying a homogeneous transversely isotropic half-space and lying under a uniform layer of liquid |
| <b>Ahmed K. Noor, W. Scott Burton<br/>and Jeanne M. Peters</b> | 1269 | Assessment of computational models for multilayered composite cylinders                                                                                         |
| <b>C. Y. Wang</b>                                              | 1287 | Postbuckling of an externally pressurized ring with a hinge                                                                                                     |
| <b>Jeng-Shian Chang and<br/>Wei-Chong Chiu</b>                 | 1295 | Thermal buckling analysis of antisymmetric laminated cylindrical shell panels                                                                                   |
| <b>R. J. Zhang and Wei Zhang</b>                               | 1311 | Turning point solutions for thin shell vibrations                                                                                                               |
| <b>H. L. Schreyer and C.-P. Chiu</b>                           | 1327 | The effects on penetrator deceleration of material features exhibited in soils                                                                                  |
|                                                                |      | <i>Announcement</i>                                                                                                                                             |
|                                                                | 1347 | Conference on Fracture Processes in Brittle Disordered Materials, Oranje Hotel, Noordwijk, The Netherlands, 19-21 June 1991                                     |
|                                                                |      | <i>Call for Papers</i>                                                                                                                                          |
|                                                                | 1348 | 18th International Congress of Theoretical and Applied Mechanics, Technion—Israel Institute of Technology, Haifa, Israel, 22-28 August 1992                     |
|                                                                |      | <i>Call for Proposals</i>                                                                                                                                       |
|                                                                | 1349 | To host an IUTAM Symposium in 1994 or 1995                                                                                                                      |

INDEXED IN Appl Mech Rev, Curr Cont ASCA, Cam Sci Abstr,  
Curr Cont/Eng Tech & Appl Sci, Eng Ind, INSPEC Data, Int Civil Eng Abstr,  
Math R, Mechanics, PASCAL-CNRS Data, Curr Cont Sci Cit Ind,  
Curr Cont SCISEARCH Data, SSSA/CISA/ECA/ISMEC

ISSN 0020-7683  
IJSOAD 27(10) 1215-1350 (1991)



Published by

**Pergamon Press**

Oxford · New York · Beijing · Frankfurt · São Paulo · Seoul · Sydney · Tokyo

Printed in Great Britain by BPC Wheatons Ltd, Exeter

297