

ISSN 0020-7683



1991  
VOLUME 27  
NUMBER 1

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 · SYDNEY · TOKYO · TORONTO

# 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. 1

1991

## CONTENTS

- |   |     |   |
|---|-----|---|
| <b>F.-S. Li and S. Kyriakides</b>                         | 1   | On the response and stability of two concentric, contacting rings under external pressure       |
| <b>Per-Lennart Larsson</b>                                | 15  | On delamination buckling and growth in circular and annular orthotropic plates                  |
| <b>Jakob Wedel-Heinen</b>                                 | 29  | Vibration of geometrically imperfect beam and shell structures                                  |
| <b>X. M. Su and W. D. Lu</b>                              | 49  | On the strain localizations of ductile single crystals undergoing single slip                   |
| <b>G. A. Kardomateas</b>                                  | 59  | End force loading of generally anisotropic curved beams with linearly varying elastic constants |
| <b>J. P. Dempsey, Z. G. Zhao and H. Li</b>                | 73  | Axisymmetric indentation of an elastic layer supported by a Winkler foundation                  |
| <b>A. L. Florence, P. R. Geffen and S. W. Kirkpatrick</b> | 89  | Dynamic plastic buckling of copper cylindrical shells   |
| <b>P. Ponte Castañeda and P. A. Mataga</b>                | 105 | Stable crack growth along a brittle/ductile interface—<br>I. Near-tip fields                    |

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(1) 1-134 (1991)



Published by

**Pergamon Press**

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

Printed in Great Britain by BPCC Wheatons Ltd, Exeter

297