

ISSN 0020-7683



1990
VOLUME 26
NUMBER 8

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 26, No. 8

1990

CONTENTS

- | | | |
|---|-----|--|
| Victor Z. Gristchak | 821 | Bifurcations and postbuckling behavior of vibrating of the nonhomogeneous, nonlinear elastic system with multiple independent bifurcation parameters |
| Y. Wang and R. K. N. D. Rajapakse | 833 | Asymmetric boundary-value problems for a transversely isotropic elastic medium |
| A. S. M. Israil and P. K. Banerjee | 851 | Two-dimensional transient wave-propagation problems by time-domain BEM |
| Kiyohiro Ikeda and Kazuo Murota | 865 | Critical initial imperfection of structures |
| M. Saje | 887 | A variational principle for finite planar deformation of straight slender elastic beams |
| Jörg Wauer | 901 | Modelling and formulation of equations of motion for cracked rotating shafts |
| Paul S. Steif | 915 | Interfacial instabilities in an unbonded layered solid |
| Avinoam Libai | 927 | The transition zone near wrinkles in pulled spherical membranes |

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 26(8) 821-940 (1990)



Published by
Pergamon Press

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

Printed in Great Britain by BPPC Wheatons Ltd, Exeter

297