

# INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES

*Editor-in-Chief*  
CHARLES STEELE *Division of Applied Mechanics*  
*Stanford University, Stanford, California*  
94305

*Consulting Editor and Editor-in-Chief, 1965-1985:*  
GEORGE HERRMANN *Division of Applied Mechanics*  
*Stanford University, Stanford, California*  
94305

*Board of Editors*  
J. D. ACHENBACH *Northwestern University*  
B. A. BOLEY *Columbia University*  
V. V. BOLOTIN *USSR Academy of Sciences*  
L. FINZI *Milan Polytechnic Institute*  
Y. C. FUNG *University of California, San Diego*  
H. J. GREENBERG *University of Denver*  
H. LIBOWITZ *The George Washington University*  
C. MASSONNET *University of Liège*  
E. W. PARKES *University of Leeds*  
W. ZIEMBA *Ruhr-Universität, Bochum*  
O. C. ZHURKAWICZ *University College of Swansea*  
H. ZORSKI *Polish Academy of Sciences*

*Editorial Advisory Board*

J. H. ARGYRIS	<i>Stuttgart</i>	M. MIKKOLA	<i>Helsinki</i>
L. BEVILACQUA	<i>Rio de Janeiro</i>	F. NORDIEN	<i>Lynby</i>
J. L. ERICKSEN	<i>Minneapolis</i>	F. DEL PUZO	<i>Madrid</i>
J. FERRY BORGES	<i>Lisbon</i>	E. REISSNER	<i>California</i>
N. J. HOFF	<i>Stanford</i>	J. SINGER	<i>Haifa</i>
W. T. KOITER	<i>Delft</i>	I. N. SNEDDON	<i>Glasgow</i>
H. LIPPMANN	<i>München</i>	F. ZIEGLER	<i>Wien</i>

*Publishing, Subscription and Advertising Offices:* Pergamon Press plc, Headington Hill Hall, Oxford OX3 0DU, U.K.; Pergamon Press, Inc., Maxwell House, Fairview Park, Elmsford, NY 10523, U.S.A.

Published monthly. Annual institutional subscription rate (1988) DM 1150.00. One-year institutional rate (1988) \$91.00. Personal subscription rate for those using library facilities at the regular rate of \$38.00. Prices are subject to change without notice. Subscription enquiries from customers in North America should be sent to Pergamon Press, Inc., Maxwell House, Fairview Park, Elmsford, NY 10523, U.S.A., and for the remainder of the world to Pergamon Press plc, Headington Hill Hall, Oxford OX3 0DU, U.K.

*Back Issues:* Back issues of all previously published volumes are available direct from Pergamon Press. Back issues of Pergamon journals in microform can be obtained from U.M.I., 300 North Zeeb Road, Ann Arbor, MI 48106, U.S.A.

Copyright © 1988 Pergamon Press plc

It is a condition of publication that manuscripts submitted to the journal have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. However, assignment of copyright is not required of authors who work for organizations which do not permit such assignment. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproductions of similar nature, and translations. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, electrostatic, mechanical, photocopying, recording or otherwise, without permission in writing from the copyright holder.

#### PHOTOCOPYING INFORMATION FOR USERS IN THE U.S.A.

The Item-fee Code for this publication indicates that authorization to photocopy items for internal or personal use is granted by the copyright holder for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service provided the stated fee for copying, beyond that permitted by Section 107 or 108 of the United States Copyright Act, is paid. The fee code for users of the Transactional Reporting Service is 0020-7225/88 \$3.00. The fee code for users of the Copyright Clearance Center Inc., 27 Congress Street, Salem, MA 01970.

#### PERMISSION TO REPRODUCE

The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific written permission must be obtained from the publisher for such copying.

*The Item-fee Code for this publication is 0020-7225/88 \$3.00 + .00*