

International Journal of
**IMPACT
ENGINEERING**



Editor-in-Chief
Norman JONES

Contents

W. J. Stronge and Hua Yunlong	253	Elastic effects on deformation of impulsively loaded elastoplastic beams
D. A. Shockey, A. H. Marchand, S. R. Skaggs, G. E. Cort, M. W. Burkett and R. Parker	263	Failure phenomenology of confined ceramic targets and impacting rods
R. Beccu and B. Lundberg	277	Efficiency of percussive drilling of rock with dissipative joints
M. Langseth and P. K. Larsen	289	Dropped objects' plugging capacity of steel plates: an experimental investigation
P. H. Bischoff, S. H. Perry and J. Eibl	317	Contact force calculations with a simple spring-mass model for hard impact: a case study using polystyrene aggregate concrete

Continued on outside back cover

Indexed/abstracted in *Appl. Mech. Rev., Camb. Sci. Abstr., Curr. Tech. Index, Engng Ind. Monthly & Author Index, Int. Civil Engng Abstr., Surface Treatment Tech. Abstr., Metals Abstr.*

ISSN 0734-743X
IJIEDA 9(3) 253-378 (1990)



PERGAMON PRESS

OXFORD ● NEW YORK

BEIJING ● FRANKFURT ● SÃO PAULO ● SYDNEY ● TOKYO ● TORONTO

INTERNATIONAL JOURNAL OF IMPACT ENGINEERING

Continued from outside front cover

- | | | |
|------------------------|-----|---|
| A. Tate | 327 | Engineering modelling of some aspects of segmented rod penetration |
| G. Sundararajan | 343 | The energy absorbed during the oblique impact of a hard ball against ductile target materials |
| H. A. Lupker | 359 | LPG rail tank cars under head-on collisions |
| Announcements | 377 | |