

Metal Forming and Impact Mechanics: William Johnson Commemorative Volume



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Metal Forming and Impact Mechanics reviews significant developments concerning the mechanics of metal forming and impact. Topics covered include the kinematics of steady plane flows in elastoplastic media; contact zone and friction coefficient in hot-rolling; and plastic deformation of porous materials. Developments in the use of superplastic alloys, the use of metal tubes as impact energy absorbers, and fracturing of explosively loaded solids are also discussed.

This book has 18 chapters divided equally between the broad headings of metal forming and impact mechanics. The section on metal forming mechanics includes papers that explore an upper bound approach to metal forming processes; rotary forming of rings under kinematic constraints; and microcomputer programs for rolling and extrolling. The section on impact mechanics examines the use of elementary approximation techniques to study plastic deformation in pulse loaded structures; static and dynamic axial crushing of circular and square tubes; and shear-control fragmentation of explosively loaded steel cylinders. This monograph will be of value to structural and mechanical engineers, metallurgists, and materials scientists and technologists, as well as to those active in the field of solid mechanics.

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