



TABLE OF CONTENTS

●	Description	p.1
●	Audience	p.1
●	Impact Factor	p.1
●	Abstracting and Indexing	p.2
●	Editorial Board	p.2
●	Guide for Authors	p.4



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DESCRIPTION

The purpose of the journal is to report original research on all aspects of **plastic deformation**, **damage** and **fracture** behaviour of **isotropic** as well as **anisotropic solids**, including the **thermodynamics** of plasticity and fracture, **continuum theory**, and macroscopic as well as microscopic phenomena.

The topics of interest include **plastic behaviour** of single crystals and polycrystalline metals, ceramics, rocks and soils, composites, nanocrystalline and microelectronics materials, **shape memory** alloys, ferroelectric ceramics, thin films and polymers, as well as **plasticity** aspects of failure and **fracture mechanics**. Significant experimental, numerical or theoretical contributions advancing the understanding of plastic behaviour of solids are of special interest, together with studies relating macroscopic to the microscopic behaviour of solids. Papers on modeling of finite nonlinear elastic deformation, with similarities to modeling of plastic deformation, are also welcome.

The Journal will contain research papers, review articles, research notes, letters to the [editor](#), and academic advertisements (books, journals, conferences, and symposia). Strain-rate dependent and strain-rate independent constitutive models to predict observed phenomena during quasi-static, dynamic or cyclic thermo-mechanical loading, behaviour of granular or porous solids under high confining pressures and at high temperatures, multiscale modeling of various deformation mechanisms (dislocation, twinning, and phase transformation), and models with capability for predicting the behaviour of composite materials based on known plastic behaviour of matrix and fibers in such materials, are some examples of the main themes of this journal. Revealing applications of the new models of plasticity, including modelling of the observed phenomena in metal forming processes are also of interest.

AUDIENCE

Materials scientists, mechanical engineers.

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