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The proposal to hold this symposium originated with the German Society of Applied Mathematics and Mechanics (GAMM) late in 1964 and was examined by a committee of IUTAM Mechanics of Generalized Continua - Proceedings of the IUTAM-Symposium on The Generalized Cosserat Continuum and the Continuum Theory of Dislocations with Applications, Freudenstadt and Stuttgart (Germany) 1967 | E. Kröner | Springer

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Mechanics of Generalized Continua Proceedings of the IUTAM-Symposium on The Generalized Cosserat Continuum and the Continuum Theory of Dislocations with Applications, Freudenstadt and Stuttgart (Germany) 1967. Editors (view affiliations) Ekkehart Kröner; Conference proceedings.

Mechanics of Generalized Continua | SpringerLink

Generalized Continuum Mechanics for Engineering Applications Conference scheduled on November 05-06, 2020 in November 2020 in Amsterdam is for the researchers, scientists, scholars, engineers, academic, scientific and university practitioners to present research activities that might want to attend events, meetings, seminars, congresses, workshops, summit, and symposiums.

International Conference on Generalized Continua ...

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Mechanics of generalized continua proceedings of the IUTAM ...

A report on the workshop Computational mechanics of generalized continua and applications to materials with microstructure (Catania 29-31 October 2015) is provided. ... Proceedings of the 4th ...

Generalized continua with applications: Euromech Solid ...

Computational mechanics of generalized continua is a discipline concerned with computational methods for the solution of mechanical problems, extending/generalizing the classical Cauchy continuum as, for example, micromorphic or gradient continua. Its interdisciplinary character combines mechanics, mathematics, and computer sciences.

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Mechanics of Generalized Continua can serve as a useful reference for graduate students and researchers in mechanical engineering, materials science, applied physics and applied mathematics.

Mechanics of Generalized Continua - One Hundred Years ...

In this book we identify and discuss four main potential fields of applications of generalized continuum theories, namely, mechanical behavior of fibrous composite reinforcements, wave propagation in metamaterials, mechanical behavior of concrete and mechanically driven remodeling of bone in presence of bio-resorbable materials.

Generalized Continuum Mechanics and Engineering ...

Mechanics of generalized continua; proceedings of the IUTAM-symposium on the Generalized Cosserat Continuum and the Continuum Theory of Dislocations with Applications, Freudenstadt and Stuttgart (Germany) 1967.

Mechanics of generalized continua; proceedings of the ...

," Mechanics of Generalized Continua. ... Experimental Application of a Generalized Continuum Model to Nondestructive Testing," J. Mater. Sci. Lett., 4 ... Related Proceedings Papers. On the Thermo-Mechanical Behaviour of SA508 Grade 4 Ferritic Steel. PVP2014.

Bending of a Cosserat Elastic Bar of Square Cross Section ...

The present work introduces an alternative framework for analysis, the mechanics of generalized Cosserat continua, although maintaining the same tools (Mohr circle construction). In this type of...

Analysis of bookshelf mechanisms using the mechanics of ...

An elliptic cylindrical inclusion with an eigenstrain in an infinite laminate composed of multiple isotropic layers is analyzed. The problem is formulated by using the classical laminated plate theory in which displacement fields in the laminated plate are expressed in terms of in-plane displacements on the main plane and transverse displacement.

The Elastic Field of an Elliptic Cylindrical Inclusion In ...

Mechanics of Continua and Wave Dynamics , Leonid Maksimovich Brekhovskikh, Valerij ... and self-contained text written for beginners, Continuum Mechanics offers concise coverage of the basic concepts, general principles, and applications of continuum. ... Mechanics of generalized continua proceedings of the IUTAM-symposium on the Generalized.

Introduction to the Mechanics of a Continuous Medium, 1969 ...

The paper applies the mechanics of generalized continua to the analysis of a specific bookshelf mechanism, related to crustal extension. In the Appendices, a review of the generalized Cosserat continua and details of the graphical Mohr circle representation of stresses for such media are presented. q 2004 Elsevier Ltd.

Analysis of bookshelf mechanisms using the mechanics of ...

In their 1909 publication Théorie des corps élastiques déformables, Eugéne and François Cosserat made a historic contribution to materials science by establishing the fundamental principles of the mechanics of generalized continua. The chapters collected in this...

Mechanics of Generalized Continua: One Hundred Years After ...

This collection on „Mechanics of Generalized Continua - from Micromechanical Basics to Engineering Applications“ brings together leading scientists in this field from France, Russian Federation, and Germany. The attention in this publication is focussed on the most recent research items, i.e., - new models, - application of well-known models to new problems, - micro-macro aspects, - computational effort, - possibilities to identify the constitutive equations, and - old problems with ...

Advanced Structured Materials Ser.: Mechanics of ...

His work deals with continuum mechanics, including relativistic continuum mechanics, micro magnetism, electrodynamics of continua, thermo mechanics, surface waves and nonlinear waves in continua, lattice dynamics, material equations and biomechanical applications (tissue growth).