

# Lecture Notes in Physics

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174

Aida Kadić  
Dominic G. B. Edelen

A Gauge Theory of Dislocations  
and Disclinations



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# Lecture Notes In Physics 174 A Gauge Theory Of Dislocations And Disclinations

**A. Olemskoi**



## **Lecture Notes In Physics 174 A Gauge Theory Of Dislocations And Disclinations:**

Gauge Theory and Defects in Solids D.G.B. Edelen, D.C. Lagoudas, 2012-12-02 This new series Mechanics and Physics of Discrete Systems aims to provide a coherent picture of the modern development of discrete physical systems Each volume will offer an orderly perspective of disciplines such as molecular dynamics crystal mechanics and or physics dislocation etc Emphasized in particular are the fundamentals of mechanics and physics that play an essential role in engineering applications Volume 1 Gauge Theory and Defects in Solids presents a detailed development of a rational theory of the dynamics of defects and damage in solids Solutions to field equations are used to determine stresses dislocation densities and currents that arise from histories of loading of boundaries of bodies Analysed in detail is a gauge theory with a gauge group that is not semi simple and whose action occurs at the classical macroscopic level Yang Mills theory is applied where the state variables are elastic displacements in solids determination of mechanical and electromagnetic observables by choice of gauge conditions is demonstrated and practices of classical dislocation theory are derived from first principles **Field**

**Theory of Multiscale Plasticity** Tadashi Hasebe, 2024-01-04 This unique book provides a concise and systematic treatment of foundational material on dislocations and metallurgy and an up to date discussion of multiscale modeling of materials which ultimately leads to the field theory of multiscale plasticity FTMP Unlike conventional continuum models this approach addresses the evolving inhomogeneities induced by deformation typically as dislocation substructures like dislocation cells as well as their interplay at more than one scale This is an impressively visual text with many and varied examples and viewgraphs In particular the book presents a feasible constitutive model applicable to crystal plasticity based finite element method FEM simulations It will be an invaluable resource accessible to undergraduate and graduate students as well as researchers in mechanical engineering solid mechanics applied physics mathematics materials science and technology

## **IUTAM Symposium on Progress in the Theory and Numerics of Configurational Mechanics** Paul

Steinmann, 2009-08-03 Configurational mechanics has attracted quite a bit of attention from various search elds over the recent years decades Having been regarded in its infancy of the early years as a somewhat obscure and almost mystic eld of research that could only be understood by a happy few of insiders with a pronounced theoretical inclination configurational mechanics has developed by now into a versatile tool that can be applied to a variety of problems Since the seminal works of Eshelby a general notion of configurational mechanics has been developed and has successfully been applied to many problems involving various types of defects in continuous media The most prominent application is certainly the use of configurational forces in fracture mechanics However as configurational mechanics is related to arbitrary material inhomogeneities it has also very successfully been applied to many materials science and engineering problems such as phase transitions and inelastic deformations Also the modeling of materials with micro structure evolution is an important eld in which configurational mechanics can provide a better understanding of processes going on within the material Besides these mechanically

physically and chemically motivated applications ideas from configurational mechanics are now increasingly applied within computational mechanics

**Geomechanics and Geodynamics of Rock Masses, Volume 1** Vladimir

Litvinenko, 2018-05-20 This book is Volume 1 of the EUROCK 2018 proceedings Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018 the 2018 International Symposium of the International Society for Rock Mechanics ISRM 2018 Saint Petersburg Russia 22-26 May 2018 Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology the main topics of the book include Physical and mechanical properties of fractured rock laboratory testing and rock properties field measurements and site investigations Geophysics in rock mechanics Rock mass strength and failure Nonlinear problems in rock mechanics Effect of joint water on the behavior of rock foundation Numerical modeling and back analysis Mineral resources development methods and rock mechanics problems Rock mechanics and underground construction in mining hydropower industry and civil engineering Rock mechanics in petroleum engineering Geodynamics and monitoring of rock mass behavior Risks and hazards Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2018 organized by the Saint Petersburg Mining University is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

**Geomechanics and Geodynamics of Rock Masses** Vladimir Litvinenko, 2018-05-15 Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018 the 2018 International Symposium of the International Society for Rock Mechanics ISRM 2018 Saint Petersburg Russia 22-26 May 2018 Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology the main topics of the book include Physical and mechanical properties of fractured rock laboratory testing and rock properties field measurements and site investigations Geophysics in rock mechanics Rock mass strength and failure Nonlinear problems in rock mechanics Effect of joint water on the behavior of rock foundation Numerical modeling and back analysis Mineral resources development methods and rock mechanics problems Rock mechanics and underground construction in mining hydropower industry and civil engineering Rock mechanics in petroleum engineering Geodynamics and monitoring of rock mass behavior Risks and hazards Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2018 organized by the Saint Petersburg Mining University is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

Deformation and Fracture of Solid-State Materials Sanichiro Yoshida, 2014-11-17 This volume introduces a comprehensive theory of deformation and fracture to engineers and applied scientists Here comprehensive means that the theory can describe all stages of deformation from elastic to plastic and plastic to fracturing stage on the same basis equations The comprehensive approach is possible because the theory is based on a fundamental physical principle called the

local symmetry or gauge invariance as opposed to phenomenology Professor Yoshida explains the gist of local symmetry gauge invariance intuitively so that engineers and applied physicists can digest it easily rather than describing physical or mathematical details of the principle The author also describes applications of the theory to practical engineering such as nondestructive testing in particular with the use of an optical interferometric technique called ESPI Electronic Speckle Pattern Interferometry The book is not a manual of applications Instead it provides information on how to apply physical concepts to engineering applications

**Mechanics of Generalized Continua** Gérard A. Maugin, Andrei V.

Metrikine, 2010-03-24 In their 1909 publication *Thorie des corps d formables* Eug ne and Fran ois Cosserat made a historic contribution to materials science by establishing the fundamental principles of the mechanics of generalized continua The chapters collected in this volume showcase the many areas of continuum mechanics that grew out of the foundational work of the Cosserat brothers The included contributions provide a detailed survey of the most recent theoretical developments in the field of generalized continuum mechanics The diverse topics covered include the properties of Cosserat media micromorphic bodies micropolar solids and fluids weakly and strongly nonlocal theories gradient theories of elasticity and plasticity defect theory everywhere defective materials bodies with fractal structure as well as other related topics

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

**Applied Exterior Calculus** Dominic G. B.

Edelen, 2005-01-01 This text begins with the essentials advancing to applications and studies of physical disciplines including classical and irreversible thermodynamics electrodynamics and the theory of gauge fields Geared toward advanced undergraduates and graduate students it develops most of the theory and requires only a familiarity with upper division algebra and mathematical analysis Essential SciTech Book News 1985 edition

*A Gauge Theory of Defects in Media with Microstructure* Dimitris C. Lagoudas, 1988

**International Journal of Theoretical Physics, Group Theory, and**

**Nonlinear Optics**, 2007

**Dispersion Relations for the Linearized Field Equations of Dislocation Dynamics**

Dominic G. B. Edelen, 1986

Micromechanics of Fracture in Generalized Spaces Ihar Alaksandravich

Miklashevich, 2008-01-08 By the detailed analysis of the modern development of the mechanics of deformable media can be found the deep internal contradiction From the one hand it is declared that the deformation and fracture are the hierarchical processes which are linked and unite several structural and scale levels From the other hand the sequential investigation of the hierarchy of the deformation and destruction is not carried out The book's aim is filling this mentioned gap and investigates the hot topic of the fracture of non ideal media From the microscopic point of view in the book we study the hierarchy of the processes in fractured solid in the whole diapason of practically used scales According the multilevel hierarchical system ideology under microscopic we understand taking into account the processes on the level lower than relative present strata From hierarchical point of view the conception of microscopic fracture can be soundly applied to the

traditionally macroscopic area namely geomechanics or main crack propagation At the same time microscopic fracture of the nanomaterials can be well grounded too This ground demands the investigation on the level of inter atomic interaction and quantum mechanical description The important feature of the book is the application of fibred manifolds and non Euclidean spaces to the description of the processes of deformation and fracture in inhomogeneous and defected continua The non Euclidean spaces for the dislocations description were introduced by J F Nye B A Bilby E Kröner K Kondo in fiftieth In last decades this necessity was shown in geomechanics and theory of seismic signal propagation The applications of non Euclidean spaces to the plasticity allow us to construct the mathematically satisfying description of the processes Taking into account this space expansion the media with microstructure are understood as Finsler space media The bundle space technique is used for the description of the influence of microstructure on the continuum metrics The crack propagation is studied as a process of movement in Finsler space Reduction of the general description to the variational principle in engineering case is investigated and a new result for the crack trajectory in inhomogeneous media is obtained Stability and stochastization of crack trajectory in layered composites is investigated The gauge field is introduced on the basis of the structure representation of Lie group generated by defects without any additional assumption Effective elastic and non elastic media for nanomaterials and their geometrical description are discussed The monograph provides the basis for more detailed and exact description of real processes in the material The monograph will be interesting for the researchers in the field of fracture mechanics solid state physics and geomechanics It can be used as well by the last year students wishing to become more familiar with some modern approaches to the physics of fracture and continual theory of dislocations In Supplement written by V V Barkaline quantum mechanical concept of physical body wholeness according to H Primas is discussed with relation to fracture Role of electronic subsystem in fracture dynamics in adiabatic and non adiabatic approximations is clarified Potential energy surface of ion subsystem accounting electron contribution is interpreted as master parameter of fracture dynamics Its features and relation to non euclidean metrics of defected solid body is discussed Quantum mechanical criteria of fracture arising are proposed **Revue Roumaine de Physique** ,1984 **Trends and Applications of Pure Mathematics to Mechanics** P.G. Ciarlet,M. Roseau,2005-07-03 **The College Station Lectures on Thermodynamics** Dominic G. B. Edelen,1993 **Archives of Mechanics** ,1998 Theory of Structure Transformation in Non-equilibrium Condensed Matter A. Olemskoi,1999 Mainly reporting results obtained by him and his Russian research group Olemskoi explores peculiarities in the behavior of statistical ensembles of atoms in the condensed state that make ideas like phonon conception either inapplicable or in need of some modification He discusses phase transitions the theory of condensed matter structure rearrangement defects of crystal structure the synergetics of the new phase macrostructure evolution the supersymmetric theory of time space evolution and the theory of stochastic systems with singular multiplicative noise **Acta Physica Polonica** ,1983 *Journal of Physics* ,2002 **Journal of Physics A** ,1999 Focuses on

fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory

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