

**Stefan J. Kowalski**

# **Thermomechanics of Drying Processes**



**Springer**

# Thermomechanics Of Drying Processes Lecture Notes In Applied And Computational Mechanics

**Chang-New Chen**



## **Thermomechanics Of Drying Processes Lecture Notes In Applied And Computational Mechanics:**

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**Poromechanics** Olivier Coussy, 2004-03-05 Modelling and predicting how porous media deform when subjected to external actions and physical phenomena including the effect of saturating fluids are of importance to the understanding of geophysics and civil engineering including soil and rock mechanics and petroleum engineering as well as in newer areas such as biomechanics and agricultural engineering. Starting from the highly successful First Edition, Coussy has completely rewritten *Mechanics of Porous Continua*. *Poromechanics* to include New material for Partially saturated porous media Reactive porous media Macroscopic electrical effects A single theoretical framework to the subject to explain the interdisciplinary nature of the subject Exercises at the end of each chapter to aid understanding The unified approach taken by this text makes it a valuable addition to the bookshelf of every PhD student and researcher in civil engineering petroleum engineering geophysics biomechanics and material science

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save our resources and supplies sustainability standards as well as further considerations such as recyclability and environmental compatibility These demands stimulate the special design of materials e g composites The interaction between materials and structures is related to different length scales and the combination of micro meso or macroscale approaches results in new application possibilities In addition materials and structures are increasingly being analyzed under the influence of various physical fields

#### **Uncertainty Assessment of Large Finite Element Systems** Christian A.

Schenk, Gerhart I. Schuëller, 2005-06-08 The treatment of uncertainties in the analysis of engineering structures remains one of the premium challenges in modern structural mechanics It is only in recent years that the developments in stochastic and deterministic computational mechanics began to be synchronized To foster these developments novel computational procedures for the uncertainty assessment of large finite element systems are presented in this monograph The stochastic input is modeled by the so called Karhunen Lo ve expansion which is formulated in this context both for scalar and vector stochastic processes as well as for random fields Particularly for strongly non linear structures and systems the direct Monte Carlo simulation technique has proven to be most advantageous as method of solution The capabilities of the developed procedures are demonstrated by showing some practical applications

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S. Stupkiewicz, 2007-04-16 Micromechanics provides a link between the structure and the properties at different scales of observation This book deals with micromechanical analysis of interfaces and interface layers and presents several modelling tools ranging from the rigorous method of asymptotic expansions to practical finite element simulations suitable for this class of problems Two application areas are discussed Boundary layers associated with contact of rough bodies are modelled by applying a scale transition approach in which a macroscopic interface of zero thickness is seen at the micro scale as a layer with some finite thickness Secondly evolution of laminated microstructures accompanying stress induced martensitic transformations in shape memory alloys SMA is analyzed as an illustration of the case when the local interfacial phenomena here the propagation of phase transformation fronts govern the macroscopic behaviour of a heterogeneous material The corresponding two parts of the book are self contained so they can be read separately by those interested only in micromechanical modelling of contact phenomena or in modelling of pseudoelasticity and stress induced martensitic microstructures in SMA single crystals

#### **Static and Dynamic Coupled Fields in Bodies with Piezoeffects or**

**Polarization Gradient** Jerzy Nowacki, 2006-03-20 This book is devoted to the theory of coupled electro magneto thermo elastic fields excited in different bodies by various sources both static and dynamic It presents the classical piezoelectric and piezomagnetic effects the Mindlin s electroelastic coupling due to a polarization gradient and different combinations of these effects with thermoelasticity

#### **Discrete Element Analysis Methods of Generic Differential Quadratures** Chang-New

Chen, 2008-09-12 Following the advance in computer technology the numerical technique has made significant progress in the past decades Among the major techniques available for numerically analyzing continuum mechanics problems

method is most early developed It is difficult to deal with continuum mechanics problems showing complex curvilinear geometries by using this method The other method that can consistently discretize continuum mechanics problems showing arbitrarily complex geometries is finite element method In addition boundary element method is also a useful numerical method In the past decade the differential quadrature and generic differential quadratures based discrete element analysis methods have been developed and used to solve various continuum mechanics problems These methods have the same advantage as finite element method of consistently discretizing continuum mechanics problems having arbitrarily complex geometries This book includes my research results obtained in developing the related novel discrete element analysis methods using both of the extended differential quadrature based spatial and temporal elements It is attempted to introduce the developed numerical techniques as applied to the solution of various continuum mechanics problems systematically

*Multifield Problems in Solid and Fluid Mechanics* Rainer Helmig, Alexander Mielke, Barbara I. Wohlmuth, 2006-11-28 Understanding the interaction between various processes is a prerequisite for solving problems in natural and engineering sciences Many phenomena can not be described by concentrating on them in isolation therefore multifield models and concepts that include various kinds of field problems and processes are needed This book summarizes the main scientific results of the Collaborative Research Center on Multifield Problems in Continuum Mechanics Sonderforschungsbereich Mehrfeldprobleme in der Kontinuumsmechanik SFB 404 funded by the German Research Foundation DFG from 1995-2006 The book is divided into three main sections A Volume Coupled Problems devoted to fields which are coupled inside the processing domain or volume B Boundary Coupled Problems here physical fields and processes are coupled via domain boundaries C Fundamental Methods search into the mathematical concepts and backgrounds of multifield and multiscale modeling

**American Book Publishing Record**, 2003 **Mathematical Methods in Electro-Magneto-Elasticity** Demosthenis I. Bardzokas, Michael L. Filshinsky, Leonid A. Filshinsky, 2007-05-19 The mechanics of Coupled Fields is a discipline at the edge of modern research connecting Continuum Mechanics with Solid State Physics This book fills many gaps in the theoretical literature which arise due to the complexity of the problem A vast number of problems are considered so that the reader can get a clear quantitative and qualitative understanding of the phenomena taking place

*Kinematics and Dynamics of Multibody Systems with Imperfect Joints* Paulo Flores, Jorge Ambrósio, J.C. Pimenta Claro, Hamid M. Lankarani, 2008-01-10 This book presents suitable methodologies for the dynamic analysis of multibody mechanical systems with joints It contains studies and case studies of real and imperfect joints The book is intended for researchers engineers and graduate students in applied and computational mechanics

*Polonica zagraniczne*, 2003 **Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen**, 2003 **Mathematical Reviews**, 2004 **Subject Guide to Books in Print**, 1975 **American Scientist**, 1942 *Conference Papers Index*, 1988 Monthly Papers presented at recent meeting held

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**Drying and Energy Technologies** J.M.P.Q. Delgado,A. Gilson Barbosa de Lima,2015-07-11 This book provides a comprehensive overview of essential topics related to conventional and advanced drying and energy technologies especially motivated by increased industry and academic interest The main topics discussed are theory and applications of drying emerging topics in drying technology innovations and trends in drying thermo hydro chemical mechanical behaviors of porous materials in drying and drying equipment and energy Since the topics covered are inter and multi disciplinary the book offers an excellent source of information for engineers energy specialists scientists researchers graduate students and leaders of industrial companies This book is divided into several chapters focusing on the engineering science and technology applied in essential industrial processes used for raw materials and products

**Heat and Mass Transfer in Drying of Porous Media** Peng Xu,Agus P. Sasmito,Arun S. Mujumdar,2019-07-16 Heat and Mass Transfer in Drying of Porous Media offers a comprehensive review of heat and mass transfer phenomena and mechanisms in drying of porous materials It covers pore scale and macro scale models includes various drying technologies and discusses the drying dynamics of fibrous porous material colloidal porous media and size distributed particle system Providing guidelines for mathematical modeling and design as well as optimization of drying of porous material this reference offers useful information for researchers and students as well as engineers in drying technology food processes applied energy mechanical and chemical engineering

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