Modeling and Simulation in Science, Engineering and Technology

# Modeling and Mechanics of Granular and Porous Materials

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BIRKHÄUSER

# Modeling And Mechanics Of Granular And Porous Material

Heat Transfer and Fluid Mechanics Institute

**Modeling And Mechanics Of Granular And Porous Material:**

**Modeling and Mechanics of Granular and Porous Materials** Gianfranco Capriz,Vito N. Ghionna,Pasquale Giovine,2002-10-04 Soils are complex materials they have a particulate structure and fluids can seep through pores mechanically interacting with the solid skeleton Moreover at a microscopic level the behaviour of the solid skeleton is highly unstable External loadings are in fact taken by grain chains which are continuously destroyed and rebuilt Many issues of modeling even of the physical details of the phenomena remain open even obscure de Gennes listed them not long ago in a critical review However despite physical complexities soil mechanics has developed on the assumption that a soil can be seen as a continuum or better yet as a medium obtained by the superposition of two and sometimes three con and the other fluids which occupy the same portion of tinua one solid space Furthermore relatively simple and robust constitutive laws were adopted to describe the stress strain behaviour and the interaction between the solid and the fluid continua The contrast between the intrinsic nature of soil and the simplistic engi neering approach is self evident When trying to describe more and more sophisticated phenomena static liquefaction strain localisation cyclic mo bility effects of diagenesis and weathering the nalve description of soil must be abandoned or at least improved Higher order continua incrementally non linear laws micromechanical considerations must be taken into account A new world was opened where basic mathematical questions such as the choice of the best tools to model phenomena and the proof of the well posedness of the consequent problems could be addressed Archives of Mechanics ,2006 **IUTAM Symposium on Mechanics of Granular and Porous Materials** N.A. Fleck,A.C.F. Cocks,2012-12-06 This volume constitutes the Proceedings of the IUT AM Symposium on Mechanics of Granular and Porous Materials held in Cambridge from 15th to 17th July 1996 The objectives were 1 To review existing experimental results and practical phenomena on the flow and compaction of particulate media 2 To review the current state of constitutive models and their implementation for predicting the macroscopic response 3 Identification of the shortcomings of existing models and procedures in understanding practical phenomena The Symposium brought together the research communities of solid mechanics materials science geomechanics chemical engineering and mathematics to review current knowledge of the flow and compaction of granular and porous media The meeting emphasised the development and use of constitutive laws to model practical processes such as mixing drainage and drying compaction of metal and ceramic powders and soils and instabilities associated with these processes A common theme was to develop constitutive models from an understanding of the underlying physical mechanisms of deformation and fracture It was particularly rewarding to find that the separate research communities came together during the meeting and came to a consensus as to the main mechanisms of deformation and failure of particulate and porous solids **Dynamic Response of Granular and Porous Materials under Large and Catastrophic Deformations** Kolumban Hutter,Nina Kirchner,2013-02-26 A Sonderforschungsbereich SFB is a programme of the Deutsche For schungsgemeinschaft to financially support a

concentrated research effort of a number of scientists located principally at one University Research La boratory or a number of these situated in close proximity to one another so that active interaction among individual scientists is easily possible Such SFB are devoted to a topic in our case Deformation and Failure in Metallic and Granular M aterialK and financing is based on a peer reviewed proposal for three now four years with the intention of several prolongations after evaluation of intermediate progress and continuation reports An SFB is terminated in general by a formal workshop in which the state of the art of the achieved results is presented in oral or I and poster communications to which also guests are invited with whom the individual project investigators may have collaborated Moreover a research report in book form is produced in which a number of articles from these lectures are selected and collected which present those research results that withstood a rigorous reviewing pro cess with generally two or three referees The theme deformation and failure of materials is presented here in two volumes of the Lecture Notes in Applied and Computational Mechanics by Springer Verlag and the present volume is devoted to granular and porous continua The complementary volume Lecture Notes in Applied and Com putational Mechanics vol 10 Eds K HUTTER H **Shock Phenomena in Granular and Porous Materials** Tracy J. Vogler,D. Anthony Fredenburg,2019-09-04 Granular forms of common materials such as metals and ceramics sands and soils porous energetic materials explosives reactive mixtures and foams exhibit interesting behaviors due to their heterogeneity and critical length scale typically commensurate with the grain or pore size Under extreme conditions of impact granular and porous materials display highly localized phenomena such as fracture inelastic deformation and the closure of voids which in turn strongly influence the bulk response Due to the complex nature of these interactions and the short time scales involved computational methods have proven to be powerful tools to investigate these phenomena Thus the coupled use of experiment theory and simulation is critical to advancing our understanding of shock processes in initially porous and granular materials This is a comprehensive volume on granular and porous materials for researchers working in the area of shock and impact physics The book is divided into three sections where the first presents the fundamentals of shock physics as it pertains to the equation of state compaction and strength properties of porous materials Building on these fundamentals the next section examines several applications where dynamic processes involving initially porous materials are prevalent focusing on the areas of penetration planetary impact and reactive munitions The final section provides a look at emerging areas in the field where the expansion of experimental and computational capabilities are opening the door for new opportunities in the areas of advanced light sources molecular dynamics modeling and additively manufactured porous structures By intermixing experiment theory and simulation throughout this book serves as an excellent up to date desk reference for those in the field of shock compression science of porous and granular materials **Geomechanics from Micro to Macro** Kenichi Soga,Krishna Kumar,Giovanna Biscontin,Matthew Kuo,2014-08-26 Geomechanics from Micro to Macro contains 268 papers presented at the International Symposium on Geomechanics from Micro and Macro IS Cambridge UK 1 3 September 2014

The symposium created a forum for the dissemination of new advances in the micro macro relations of geomaterial behaviour and its modelling The papers on experimental investigati **Numerical Modeling in Micromechanics via Particle Methods** H. Konietzky,2017-11-01 Particle methods have seen increasing use in several engineering and scientific fields both because of their unique modelling capabilities and the availability of the necessary computational power This title focuses on their theory and application *Numerical Simulation of Pore-scale Heterogeneity and Its Effects on Elastic, Electrical and Transport Properties* Ratnanabha Sain,2010 This dissertation describes numerical experiments quantifying the influence of pore scale heterogeneities and their evolution on macroscopic elastic electrical and transport properties of porous media We design implement and test a computational recipe to construct granular packs and consolidated microstructures replicating geological processes and to estimate the link between process to property trends This computational recipe includes five constructors a Granular Dynamics GD simulation an Event Driven Molecular Dynamics EDMD simulation and three computational diagenetic schemes and four property estimators based on GD for elastic finite elements FE for elastic and electrical conductivity and Lattice Boltzmann method LBM for flow property simulations Our implementation of GD simulation is capable of constructing realistic frictional jammed sphere packs under isotropic and uniaxial stress states The link between microstructural properties in these packs like porosity and coordination number average number of contacts per grain and stress states due to compaction is non unique and depends on assemblage process and inter granular friction Stable jammed packs having similar internal stress and coordination number CN can exist at a range of porosities 38 42% based on how fast they are assembled or compressed Similarly lower inter grain friction during assemblage creates packs with higher coordination number and lower porosity at the same stress Further the heterogeneities in coordination number spatial arrangement of contacts the contact forces and internal stresses evolve with compaction non linearly These pore scale heterogeneities impact effective elastic moduli calculated by using infinitesimal perturbation method Simulated stress strain relationships and pressure dependent elastic moduli for random granular packs show excellent match with laboratory experiments unlike theoretical models based on Effective Medium Theory EMT We elaborately discuss the reasons why Effective Medium Theory EMT fails to correctly predict pressure dependent elastic moduli stress strain relationships and stress ratios in uniaxial compaction of granular packs or unconsolidated sediments We specifically show that the unrealistic assumption of homogeneity in disordered packs and subsequent use of continuum elasticity based homogeneous strain theory creates non physical packs which is why EMT fails In the absence of a rigorous theory which can quantitatively account for heterogeneity in random granular packs we propose relaxation corrections to amend EMT elastic moduli predictions These pressure dependent and compaction dependent isotropic or uniaxial correction factors are rigorously estimated using GD simulation without non physical approximations Further these correction factors heuristically represent the pressure dependent heterogeneity and are also applicable for amending predictions of theoretical

cementation models which are conventionally used for granular packs For predicting stress ratios in uniaxial compaction scenario we show the inappropriateness of linear elasticity based equations which use elastic constants only and do not account for dissipative losses like grain sliding We further implement and test a computational recipe to construct consolidated microstructures based on different geological scenarios like sorting compaction cementation types and cement materials Our diagenetic trends of elastic electrical and transport properties show excellent match with laboratory experiments on core plugs This shows the feasibility of implementing a full scale computational rock physics based laboratory to construct and estimate properties based on geological processes However the elastic property estimator FE simulation shows limitations of finite resolution while computing elastic properties of unconsolidated sediments and fluid saturated microstructures **Advances in Powder Metallurgy & Particulate Materials** ,2002 Advances in Mathematical Methods and High Performance Computing Vinai K. Singh,David Gao,Andreas Fischer,2019-02-14 This special volume of the conference will be of immense use to the researchers and academicians In this conference academicians technocrats and researchers will get an opportunity to interact with eminent persons in the field of Applied Mathematics and Scientific Computing The topics to be covered in this International Conference are comprehensive and will be adequate for developing and understanding about new developments and emerging trends in this area High Performance Computing HPC systems have gone through many changes during the past two decades in their architectural design to satisfy the increasingly large scale scientific computing demand Accurate fast and scalable performance models and simulation tools are essential for evaluating alternative architecture design decisions for the massive scale computing systems This conference recounts some of the influential work in modeling and simulation for HPC systems and applications identifies some of the major challenges and outlines future research directions which we believe are critical to the HPC modeling and simulation community

**Recent Developments in Computer Modeling of Powder Metallurgy Processes** Antonios Zavaliangos,Alexander Laptev,2001 This book contains 25 papers from the NATO Advanced Research Workshop on Recent Advances of Computer Modeling of Powder Metallurgy Processes The papers address cold compaction sintering high temperature compaction processing modeling and processes and materials The integration of mechanical and physical aspects of P M processes is emphasized Contributors include researchers from Europe the United States Korea and Japan Author index only c Book News Inc Treatise on Geophysics ,2015-04-17 Treatise on Geophysics Second Edition is a comprehensive and in depth study of the physics of the Earth beyond what any geophysics text has provided previously Thoroughly revised and updated it provides fundamental and state of the art discussion of all aspects of geophysics A highlight of the second edition is a new volume on Near Surface Geophysics that discusses the role of geophysics in the exploitation and conservation of natural resources and the assessment of degradation of natural systems by pollution Additional features include new material in the Planets and Moon Mantle Dynamics Core Dynamics Crustal and Lithosphere Dynamics Evolution of the Earth and Geodesy

volumes New material is also presented on the uses of Earth gravity measurements This title is essential for professionals researchers professors and advanced undergraduate and graduate students in the fields of Geophysics and Earth system science Comprehensive and detailed coverage of all aspects of geophysics Fundamental and state of the art discussions of all research topics Integration of topics into a coherent whole **ESDA 1996: Computational mechanics ; Thermomechanics** ,1996 The sixth of nine volumes from the July 1996 conference contains 30 papers on such topics as load distribution between threads in threaded connections and unsteady free convection over a spinning rotational symmetric body Annotation c by Book News Inc Portland Or **Subject Guide to Books in Print** ,1991 *Journal of Engineering Mechanics* ,2005 **Mechanics of Heterogenous Fluids in Porous Media** Arthur Thomas Corey,1977

**Mathematical Modeling in Mechanics of Granular Materials** Oxana Sadovskaya,Vladimir Sadovskii,2012-06-08 This monograph contains original results in the field of mathematical and numerical modeling of mechanical behavior of granular materials and materials with different strengths It proposes new models helping to define zones of the strain localization The book shows how to analyze processes of the propagation of elastic and elastic plastic waves in loosened materials and constructs models of mixed type describing the flow of granular materials in the presence of quasi static deformation zones In a last part the book studies a numerical realization of the models on multiprocessor computer systems The book is intended for scientific researchers lecturers of universities post graduates and senior students who specialize in the field of the deformable materials mechanics mathematical modeling and adjacent fields of applied and calculus mathematics

*Preprints of Papers - Heat Transfer and Fluid Mechanics Institute* Heat Transfer and Fluid Mechanics Institute,1989

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