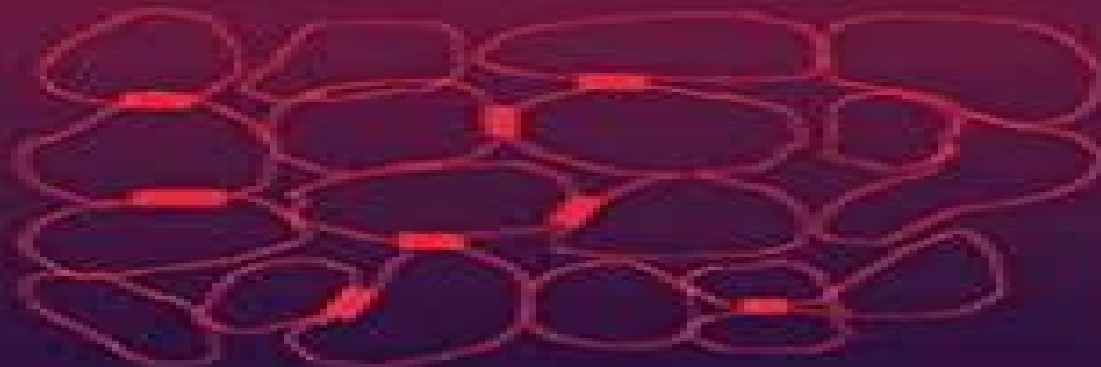


# Mechanics of Materials and Interfaces

*The  
Disturbed State Concept*



**Chandrakant S. Desai**

# Mechanics Of Materials And Interfaces The Disturbed State Concept

**Roman Wölfel**



## **Mechanics Of Materials And Interfaces The Disturbed State Concept:**

*Mechanics of Materials and Interfaces* Chandrakant S. Desai, 2000-12-20 The disturbed state concept DSC is a unified constitutive modelling approach for engineering materials that allows for elastic plastic and creep strains microcracking and fracturing stiffening or healing all within a single hierarchical framework Its capabilities go well beyond other available material models yet lead to significant simpl

**Handbook of Materials Behavior Models, Three-Volume Set** Jean LeMaitre, 2001-11-17 This first of a kind reference handbook deals with nonlinear models and properties of material In the study the behavior of materials phenomena no unique laws exist Therefore researchers often turn to models to determine the properties of materials This will be the first book to bring together such a comprehensive collection of these models The Handbook deals with all solid materials and is organized first by phenomena Most of the materials models presented in an applications oriented fashion less descriptive and more practitioner geared making it useful in the daily working activities of professionals The Handbook is divided into three volumes Volume I Deformation of Materials introduces general methodologies in the art of modeling in choosing materials and in the so called size effect Chapters 2 5 deal respectively with elasticity and viscoelasticity yield limit plasticity and visco plasticity Volume II Failures in Materials provides models on such concerns as continuous damage cracking and fracture and friction wear Volume III Multiphysics Behavior deals with multiphysics coupled behaviors Chapter s 10 and 11 are devoted to special classes of materials composites biomaterials and geomaterials The different sections within each chapter describe one model each with its domain of validity its background its formulation the identification of material parameters for as many materials as possible and advice on how to implement or use the model The study of the behavior of materials especially solids is related to hundreds of areas in engineering design and control Predicting how a material will perform under various conditions is essential to determining the optimal performance of machines and vehicles and the structural integrity of buildings as well as safety issues Such practical examples would be how various new materials such as those used in new airplane hulls react to heat or cold or sudden temperature changes or how new building materials hold up under extreme earthquake conditions The Handbook of Materials Behavior Models Gathers together 117 models of behavior of materials written by the most eminent specialists in their field Presents each model s domain of validity a short background its formulation a methodology to identify the materials parameters advise on how to use it in practical applications as well as extensive references Covers all solid materials metals alloys ceramics polymers composites concrete wood rubber geomaterials such as rocks soils sand clay biomaterials etc Concerns all engineering phenomena elasticity viscoelasticity yield limit plasticity viscoplasticity damage fracture friction and wear

**DSC/HISS Modeling Applications for Problems in Mechanics, Geomechanics, and Structural Mechanics** Chandrakant S. Desai, Yang Xiao, Musharraf Zaman, John Phillip Carter, 2023-11-30 Understanding the mechanical behavior of solids and contacts interfaces and joints is vital for the analysis design and maintenance of

engineering systems Materials may simultaneously experience the effects of many factors such as elastic plastic and creep strains different loading stress paths volume change under shear stress and microcracking leading to fracture and failure strain softening or degradation Typically the available models account for only one factor at a time however the disturbed state concept DSC with the hierarchical single surface HISS plasticity is a unified modeling approach that can allow for numerous factors simultaneously and in an integrated manner DSC HISS Modeling Applications for Problems in Mechanics Geomechanics and Structural Mechanics provides readers with comprehensive information including the basic concepts and applications for the DSC HISS modeling regarding a wide range of engineering materials and contacts Uniformity in format and content of each chapter will make it easier for the reader to appreciate the potential of using the DSC HISS modeling across various applications Features Presents a new and simplified way to learn characterizations and behaviors of materials and contacts under various conditions Offers modeling applicable to several different materials including geologic clays sands rocks modified geologic materials structured soils overconsolidated soils expansive soils loess frozen soils chemically treated soils hydrate bearing sediments and more

**Rock Mechanics and Engineering Volume 1** Xia-Ting Feng,2017-03-16 Principles is the first volume of the five volume set Rock Mechanics and Engineering and contains twenty four chapters from key experts in the following fields Discontinuities Anisotropy Rock Stress Geophysics Strength Criteria Modeling Rock Deformation and Failure The five volume set Comprehensive Rock Engineering which was published in 1993 has had an important influence on the development of rock mechanics and rock engineering Significant and extensive advances and achievements in these fields over the last 20 years now justify the publishing of a comparable new compilation Rock Mechanics and Engineering represents a highly prestigious multi volume work edited by Professor Xia Ting Feng with the editorial advice of Professor John A Hudson This new compilation offers an extremely wideranging and comprehensive overview of the state of the art in rock mechanics and rock engineering and is composed of peer reviewed dedicated contributions by all the key experts worldwide Key features of this set are that it provides a systematic global summary of new developments in rock mechanics and rock engineering practices as well as looking ahead to future developments in the fields Contributors are worldrenowned experts in the fields of rock mechanics and rock engineering though younger talented researchers have also been included The individual volumes cover an extremely wide array of topics grouped under five overarching themes Principles Vol 1 Laboratory and Field Testing Vol 2 Analysis Modelling and Design Vol 3 Excavation Support and Monitoring Vol 4 and Surface and Underground Projects Vol 5 This multi volume work sets a new standard for rock mechanics and engineering compendia and will be the go to resource for all engineering professionals and academics involved in rock mechanics and engineering for years to come

Analytical Methods in Petroleum Upstream Applications  
Cesar Ovalles,Carl E. Rechsteiner Jr.,2015-04-02 Effective measurement of the composition and properties of petroleum is essential for its exploration production and refining however new technologies and methodologies are not adequately

documented in much of the current literature Analytical Methods in Petroleum Upstream Applications explores advances in the analytical methods and instrumentation that allow more accurate determination of the components classes of compounds properties and features of petroleum and its fractions Recognized experts explore a host of topics including A petroleum molecular composition continuity model as a context for other analytical measurements A modern modular sampling system for use in the lab or the process area to collect and control samples for subsequent analysis The importance of oil in water measurements and monitoring The chemical and physical properties of heavy oils their fractions and products from their upgrading Analytical measurements using gas chromatography and nuclear magnetic resonance NMR applications Asphaltene and heavy ends analysis Chemometrics and modeling approaches for understanding petroleum composition and properties to improve upstream midstream and downstream operations Due to the renaissance of gas and oil production in North America interest has grown in analytical methods for a wide range of applications The understanding provided in this text is designed to help chemists geologists and chemical and petroleum engineers make more accurate estimates of the crude value to specific refinery configurations providing insight into optimum development and extraction schemes

Proceedings of the 16th International Conference on Soil Mechanics and Geotechnical Engineering The Organizing Committee of the 16th ICSMGE,2005-09-12 The 16th ICSMGE responds to the needs of the engineering and construction community promoting dialog and exchange between academia and practice in various aspects of soil mechanics and geotechnical engineering This is reflected in the central theme of the conference Geotechnology in Harmony with the Global Environment The proceedings of the conference are of great interest for geo engineers and researchers in soil mechanics and geotechnical engineering Volume 1 contains 5 plenary session lectures the Terzaghi Oration Heritage Lecture and 3 papers presented in the major project session Volumes 2 3 and 4 contain papers with the following topics Soil mechanics in general Infrastructure and mobility Environmental issues of geotechnical engineering Enhancing natural disaster reduction systems Professional practice and education Volume 5 contains the report of practitioner academic forum 20 general reports a summary of the sessions and workshops held during the conference *Advances in Transportation Geotechnics* Ed Ellis,Hai-Sui Yu,Glenn McDowell,Andrew R. Dawson,Nick Thom,2008-08-01 Highways provide the arteries of modern society The interaction of road rail and other transport infrastructure with the ground is unusually intimate and thus needs to be well understood to provide economic and reliable infrastructure for society Challenges include not only the design of new infrastructure often on problematic ground but inc **Numerical Methods in Geotechnical Engineering** Helmut F. Schweiger,2006-08-17 An overview of recent developments in constitutive modelling numerical implementation issues and coupled and dynamic analysis There is a special section dedicated to the numerical modelling of ground improvement techniques with applications of numerical methods for solving practical boundary value problems such as deep excavations tunne **Computer Methods and Advances in Geomechanics** Chandra S. Desai,2001 **Mechanics of Geomaterial**

**Interfaces** A.P.S. Selvadurai, M.J. Boulon, 1995-01-30 The subject of geomaterial interfaces recognizes the important influences of the interface behaviour on the performance of interfaces involving cementaceous materials such as concrete and steel ice structure interfaces concrete rock interfaces and interfaces encountered in soil reinforcement During the past two decades the subject of geomaterial interfaces has attracted the concerted attention of scientists and engineers both in geomechanics and applied mechanics These efforts have been largely due to the observation that the conventional idealizations of the behaviour of interfaces between materials by frictionless contact bonded contact Coulomb friction or finite friction tend to omit many interesting and important influences of special relevance to geomaterials The significant manner in which non linear effects dilatancy contact degradation hardening and softening etc can influence the behaviour of the interface is borne out by experimental evidence As a result in many instances the response of the interface can be the governing criterion in the performance of a geomechanics problem The primary objective of this volume is to provide a documentation of recent advances in the area of geomaterial interfaces The volume consists of subject groupings which cover ice structure soil structure and steel concrete interfaces mechanics of rock and concrete joints and interfaces in discrete systems

**Challenges and Innovations in Geomechanics** Marco Barla, Alice Di Donna, Donatella Sterpi, 2021-01-14 This book gathers the latest advances innovations and applications in the field of computational geomechanics as presented by international researchers and engineers at the 16th International Conference of the International Association for Computer Methods and Advances in Geomechanics IACMAG 2020 21 Contributions include a wide range of topics in geomechanics such as monitoring and remote sensing multiphase modelling reliability and risk analysis surface structures deep structures dams and earth structures coastal engineering mining engineering earthquake and dynamics soil atmosphere interaction ice mechanics landfills and waste disposal gas and petroleum engineering geothermal energy offshore technology energy geostructures geomechanical numerical models and computational rail geotechnics

**Applied Mechanics Reviews**, 1992  
*Advanced Geotechnical Engineering* Chandrakant S. Desai, Musharraf Zaman, 2013-11-27 Soil structure interaction is an area of major importance in geotechnical engineering and geomechanics Advanced Geotechnical Engineering Soil Structure Interaction using Computer and Material Models covers computer and analytical methods for a number of geotechnical problems It introduces the main factors important to the application of computer methods and constitutive models with emphasis on the behavior of soils rocks interfaces and joints vital for reliable and accurate solutions This book presents finite element FE finite difference FD and analytical methods and their applications by using computers in conjunction with the use of appropriate constitutive models they can provide realistic solutions for soil structure problems A part of this book is devoted to solving practical problems using hand calculations in addition to the use of computer methods The book also introduces commercial computer codes as well as computer codes developed by the authors Uses simplified constitutive models such as linear and nonlinear elastic for resistance displacement response in 1 D problems Uses advanced constitutive

models such as elasticplastic continued yield plasticity and DSC for microstructural changes leading to microcracking failure and liquefaction Delves into the FE and FD methods for problems that are idealized as two dimensional 2 D and three dimensional 3 D Covers the application for 3 D FE methods and an approximate procedure called multicomponent methods Includes the application to a number of problems such as dams slopes piles retaining reinforced earth structures tunnels pavements seepage consolidation involving field measurements shake table and centrifuge tests Discusses the effect of interface response on the behavior of geotechnical systems and liquefaction considered as a microstructural instability This text is useful to practitioners students teachers and researchers who have backgrounds in geotechnical structural engineering and basic mechanics courses     Oil and Gas Pipelines R. Winston Revie,2025-03-18 Discover the integrity safety and security of new and aging oil and gas pipelines in this comprehensive reference guide Oil and gas pipelines are typically used to transport oil and gas but can be adapted to transport ethanol carbon dioxide hydrogen and more A pipeline network is an efficient method for transporting any number of energy providing products but safety and integrity are critical aspects of pipeline integrity management The demand for pipeline safety and security is increasing in the face of more stringent standards and deepening environmental concerns including those related to climate change Oil and Gas Pipelines Integrity Safety and Security Handbook provides a comprehensive introduction to the integrity of new and aging pipelines and their management repair and maintenance All major varieties of pipeline are included along with all pertinent public safety and environmental protections Now fully updated to reflect the latest research and technological developments the book is a critical contribution to the reliability and safety of the global energy grid and ongoing efforts at carbon capture utilization and storage Readers of the second edition of Oil and Gas Pipelines will also find 26 new chapters including a new section on the digitalization of pipelines Detailed discussion of topics including management of geohazards mechanical damage internal corrosion monitoring and many more Extensive case histories with practical accompanying solutions Oil and Gas Pipelines is ideal for engineers scientists technologists environmentalists students and others who need to understand the basics of pipeline technology as it pertains to energy deliverability environmental protection public safety and the important role of pipelines and pipeline security to ensure energy security during the energy transition     Constitutive Modeling of Soils and Rocks Pierre-Yves Hicher,Jian-Fu Shao,2013-03-01 This title provides a comprehensive overview of elastoplasticity relating to soil and rocks Following a general outline of the models of behavior and their internal structure each chapter develops a different area of this subject relating to the author s particular expertise The first half of the book concentrates on the elastoplasticity of soft soils and rocks while the second half examines that of hard soils and rocks     Computational Multiphase Geomechanics Fusao Oka,Sayuri Kimoto,2021-11-21 Numerical methods are very powerful tools for use in geotechnical engineering particularly in computational geotechnics Interest is strong in the new field of multi phase nature of geomaterials and the area of computational geotechnics is expanding Alongside their companion volume Computational

Modeling of Multiphase Geomaterials CRC Press 2012 Fusao Oka and Sayuri Kimoto cover recent progress in several key areas such as air water soil mixture cyclic constitutive models anisotropic models noncoaxial models gradient models compaction bands a form of volumetric strain localization and strain localization under dynamic conditions and the instability of unsaturated soils The text also includes applications of computational modeling to large scale excavation of ground liquefaction analysis of levees during earthquakes methane hydrate development and the characteristics of contamination using bentonite The erosion of embankments due to seepage flow is also presented **Latest Developments in**

**Geotechnical Earthquake Engineering and Soil Dynamics** T.G. Sitharam,Ravi Jakka,Sreevalsa Kolathayar,2021-07-01

This volume brings together contributions from world renowned researchers and practitioners in the field of geotechnical engineering The chapters of this book are based on the keynote and invited lectures delivered at the 7th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics The book presents advances in the field of soil dynamics and geotechnical earthquake engineering A strong emphasis is placed on proving connections between academic research and field practice with many examples case studies best practices and discussions on performance based design This volume will be of interest to research scholars academicians and industry professionals alike

**Advances in Computer Methods and Geomechanics** Amit Prashant,Ajanta Sachan,Chandrakant S. Desai,2020-03-11 This volume presents selected papers from IACMAG Symposium The major themes covered in this conference are Earthquake Engineering Ground Improvement and Constitutive Modelling This volume will be of interest to researchers and practitioners in geotechnical and geomechanical engineering **Journal of the Mechanical Behavior of Materials** ,1999

**Environmental Rock Engineering** S. Murata,T. Saito,2003-01-01 This book is a collection of papers presented at the 1st Kyoto International Symposium on Underground Environment entitled Role of Geo technology to the Underground Environment Consists of nine keynote papers thirty one technical papers and fifteen papers resulting from the poster presentations each covering a vital aspect of underground engineering



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