

# The Rock Physics Handbook

Tools for Seismic Analysis of Porous Media

# Rock Physics Handbook Tools

**PT Brinkman**



## **Rock Physics Handbook Tools:**

Rock Physics Handbook Gary Mavko, Tapan Mukerji, Jack Dvorkin, Stanford University. Rock Physics Laboratory, 1996

**The Rock Physics Handbook** Gary Mavko, Tapan Mukerji, Jack Dvorkin, 2009-04-30 A significantly expanded new edition of this practical guide to rock physics and geophysical interpretation for reservoir geophysicists and engineers *The Rock Physics Handbook* Gary Mavko, 2003 Studyguide for the Rock Physics Handbook Cram101 Textbook Reviews, 2013-05

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**Seismic Interpretation** Per Avseth, Tapan Mukerji, Gary Mavko, 2010-06-10 Quantitative Seismic Interpretation demonstrates how rock physics can be applied to predict reservoir parameters such as lithologies and pore fluids from seismically derived attributes The authors provide an integrated methodology and practical tools for quantitative interpretation uncertainty assessment and characterization of subsurface reservoirs using well log and seismic data They illustrate the advantages of these new methodologies while providing advice about limitations of the methods and traditional pitfalls This book is aimed at graduate students academics and industry professionals working in the areas of petroleum geoscience and exploration seismology It will also interest environmental geophysicists seeking a quantitative subsurface characterization from shallow seismic data The book includes problem sets and a case study for which seismic and well log data and MATLAB codes are provided on a website <http://www.cambridge.org> 9780521151351 These resources will allow readers to gain a hands on understanding of the methodologies Outlines and Highlights for the Rock Physics Handbook

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encompasses practically all aspects of solid and fluid state physics This book provides a unified presentation of the underlying physical principles of rock physics covering elements of mineral physics petrology and rock mechanics After a short introduction on rocks and minerals the subsequent chapters cover rock density porosity stress and strain relationships permeability poroelasticity acoustics conductivity polarizability magnetism thermal properties and natural radioactivity Each chapter includes problem sets and focus boxes with in depth explanations of the physical and mathematical aspects of underlying processes The book is also supplemented by online MATLAB exercises to help students apply their knowledge to numerically solve rock physics problems Covering laboratory and field based measurement methods as well as theoretical models this textbook is ideal for upper level undergraduate and graduate courses in rock physics It will also make a useful

reference for researchers and professional scientists working in geoscience and petroleum engineering      The Rock Physics Handbook Gary Mavko,Tapan Mukerji,Jack Dvorkin,2020-01-09 Brings together widely scattered theoretical and laboratory rock physics relations critical for modelling and interpretation of geophysical data      Statistical Rock Physics Gabor Korvin,2024-04-06 The book is the first systematic and comprehensive treatise of stochastic models and computational tools that have emerged in rock physics in the last 20 years The field of statistical rock physics is a part of rock physics Petrophysics Its concepts methods and techniques are borrowed from stochastic geometry and statistical physics This discipline describes the interior geometry of rocks derives their effective physical properties based on their random composition and the random arrangement of their constituents and builds models to simulate the past geological processes that had formed the rock The aim of the book is to help the readers to understand the claims techniques and published results of this new field and most importantly to teach them in order to creatively apply stochastic geometry and statistical physics in their own research tasks For this purpose the underlying mathematics will be discussed in all sections of the book numerical solutions will be highlighted a full set of references will be provided and theory will go hand in hand with practical applications to hydraulic permeability electric conduction rock failure NMR mechanics of random grain packings as well as the compaction of shale      **Rock physics of unconventional reservoirs** Qiaomu Qi,Lidong Dai,Maxim Lebedev,Tobias Mueller,Junfang Zhang,2023-07-19      Petro-physics and Rock Physics of Carbonate Reservoirs Kumar Hemant Singh,Ritesh Mohan Joshi,2019-10-16 This book presents selected articles from the workshop on Challenges in Petrophysical Evaluation and Rock Physics Modeling of Carbonate Reservoirs held at IIT Bombay in November 2017 The articles included explore the challenges associated with using well log data core data analysis and their integration in the qualitative and quantitative assessment of petrophysical and elastic properties in carbonate reservoirs The book also discusses the recent trends and advances in the area of research and development of carbonate reservoir characterization both in industry and academia Further it addresses the challenging concept of porosity partitioning which has huge implications for exploration and development success in these complex reservoirs enabling readers to understand the varying orders of deposition and diagenesis and also to model the flow and elastic properties      *Rock Physics and Geofluid Detection* Jing Ba,José M. Carcione,Erik H. Saenger,Beatriz Quintal,Liyun Fu,Ludmila Adam,Ravi Sharma,2021-10-29      **52 Things You Should Know about Geophysics** Matt Hall,2012 There is something for every subsurface professional in these fifty two short essays by more than three dozen petroleum geoscientists The roster includes some of the most prolific geophysicists of our time as well as some recently qualified scientists The topics are even more diverse ranging from anisotropic media to pre stack interpretation and from stories of early seismic workstations to career advice for the future      Guidelines for Open Pit Slope Design John Read,Peter Stacey,2009-11-09 Guidelines for Open Pit Slope Design is a comprehensive account of the open pit slope design process Created as an outcome of the Large Open Pit LOP project an international research and technology

transfer project on rock slope stability in open pit mines this book provides an up to date compendium of knowledge of the slope design processes that should be followed and the tools that are available to aid slope design practitioners This book links innovative mining geomechanics research into the strength of closely jointed rock masses with the most recent advances in numerical modelling creating more effective ways for predicting rock slope stability and reliability in open pit mines It sets out the key elements of slope design the required levels of effort and the acceptance criteria that are needed to satisfy best practice with respect to pit slope investigation design implementation and performance monitoring Guidelines for Open Pit Slope Design comprises 14 chapters that directly follow the life of mine sequence from project commencement through to closure It includes information on gathering all of the field data that is required to create a 3D model of the geotechnical conditions at a mine site how data is collated and used to design the walls of the open pit how the design is implemented up to date procedures for wall control and performance assessment including limits blasting scaling slope support and slope monitoring and how formal risk management procedures can be applied to each stage of the process This book will assist in meeting stakeholder requirements for pit slopes that are stable in regards to safety ore recovery and financial return for the required life of the mine

*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

Rock Damage and Fluid Transport, Part I G. Dresen, Ove Stephansson, Arno Zang, 2008-01-24 Mechanical properties and fluid transport in rocks are intimately linked as deformation of a solid rock matrix immediately affects the pore space and permeability Part I of this topical volume covers mainly the nucleation and evolution of crack damage in rocks new or modified techniques to measure rock fracture toughness and a discussion of upscaling techniques relating mechanical and fluid transport behaviour in rocks at different spatial scales

*Mechanics, Structure and Evolution of Fault Zones* Yehuda Ben-Zion, Charles Sammis, 2009-12-30 Considerable progress has been made recently in quantifying geometrical and physical properties of fault surfaces and adjacent fractured and granulated damage zones in active faulting environments There has also been significant progress in developing rheologies and computational frameworks that can model the dynamics of fault zone processes This volume provides state of the art theoretical and observational results on the mechanics structure and evolution of fault zones Subjects discussed include damage rheologies development of instabilities fracture and friction dynamic rupture experiments and analyses of earthquake and fault zone data

**Lithosphere** Irina Mikhailovna Artem'eva, 2011-07-28 Multidisciplinary overview of lithospheric structure and evolution based on a full set of geophysical methods for researchers and advanced students

*Geomechanical and Petrophysical Properties of Mudrocks* E.H. Rutter, J. Mecklenburgh, K.G. Taylor, 2017-10-09 A surge of interest in the geomechanical and petrophysical properties of mudrocks

shales has taken place in recent years following the development of a shale gas industry in the United States and elsewhere and with the prospect of similar developments in the UK Also these rocks are of particular importance in excavation and construction geotechnics and other rock engineering applications such as underground natural gas storage carbon dioxide disposal and radioactive waste storage They may greatly influence the stability of natural and engineered slopes Mudrocks which make up almost three quarters of all the sedimentary rocks on Earth therefore impact on many areas of applied geoscience This volume focuses on the mechanical behaviour and various physical properties of mudrocks The 15 chapters are grouped into three themes i physical properties such as porosity permeability fluid flow through cracks strength and geotechnical behaviour ii mineralogy and microstructure which control geomechanical behaviour and iii fracture both in laboratory studies and in the field

**Soft Matter And Biomaterials On The Nanoscale: The Wspc Reference On Functional Nanomaterials - Part I (In 4 Volumes)** ,2020-06-24 This book is indexed in Chemical Abstracts Service Soft and bio nanomaterials offer a tremendously rich behavior due to the diversity and tailorability of their structures Built from polymers nanoparticles small and large molecules peptoids and other nanoscale building blocks such materials exhibit exciting functions either intrinsically or through the engineering of their organization and combination of blocks Thus it is not surprising that a variety of challenges for example in energy storage environment protection advanced manufacturing purification and healthcare can be addressed using these materials The recent advances in understanding the behavior of soft matter and biomaterials are being actively translated into functional materials systems and devices which take advantages of newly discovered and specifically created morphologies with desired properties This major reference work presents a detailed overview of recent research developments on fundamental and application inspired aspects of soft and bio nanomaterials and their emerging functions and will be divided into four volumes Vol 1 Soft Matter under Geometrical Confinement From Fundamentals at Planar Surfaces and Interfaces to Functionalities of Nanoporous Materials Vol 2 Polymers on the Nanoscale Nano structured Polymers and Their Applications Vol 3 Bio Inspired Nanomaterials Nanomaterials Built from Biomolecules and Using Bio derived Principles Vol 4 Nanomedicine Nanoscale Materials in Nano Bio Medicine

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