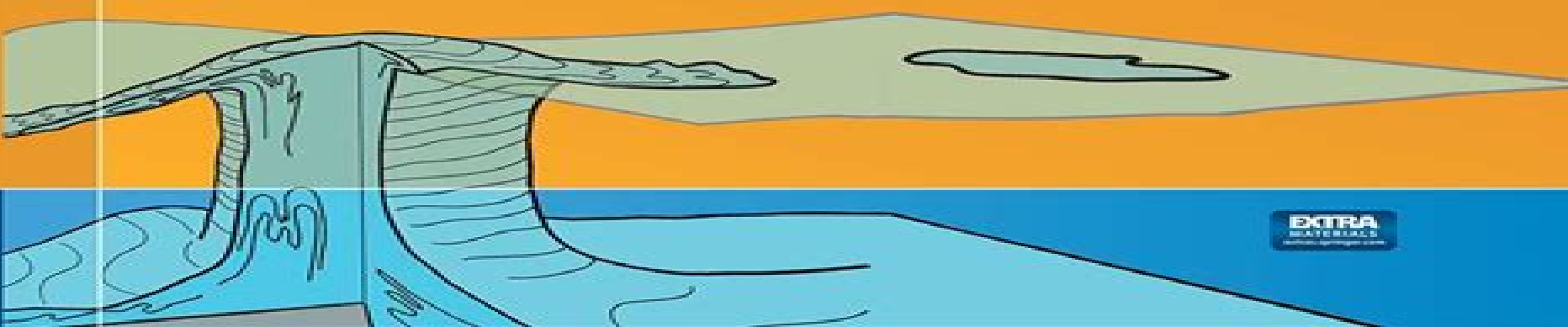


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# Dynamics of Complex Intracontinental Basins

The Central European Basin System

 Springer

# Dynamics Of Complex Intracontinental Basins The Central European Basin System

**Juan I. Soto,Joan Flinch,Gabor Tari**



## **Dynamics Of Complex Intracontinental Basins The Central European Basin System:**

Dynamics of Complex Intracontinental Basins Ralf Littke,Ulf Bayer,Dirk Gajewski,Susanne Nelskamp,2008-08-11

Sedimentary basins host among others most of our energy and fresh water resources they can be regarded as large geo reactors in which many physical and chemical processes interact Their complexity can only be well understood in well organized interdisciplinary co operations This book documents how researchers from different geo scientific disciplines have jointly analysed the structural thermal and sedimentary evolution as well as fluid dynamics of a complex sedimentary basin system which has experienced a variety of activation and reactivation impulses as well as intense salt tectonics In this book we have summarized our geological geophysical and geochemical understanding of some of the most important processes affecting sedimentary basins in general and our view on the evolution of one of the largest best explored and most complex continental sedimentary basins on Earth The Central European Basin System *Palaeozoic Climate Cycles* A. Gąsiewicz,M. Słowakiewicz,2014-02-03 This volume presents results of a variety of case studies documenting the Late Palaeozoic climate changes and cyclicity of deposition The collected papers cover many aspects related to palaeoenvironmental analysis with sedimentological stratigraphic palaeobiological geochemical and palaeomagnetic studies of the fossil record around the Late Palaeozoic Ice Age and soon after They span a stratigraphic interval from Carboniferous to Permian Triassic transition around the world This book comprising results for a range of disciplines is a valuable source for not only researchers who are actively working on specific aspects of the Late Palaeozoic and looking for an up to date reference on this inhospitable time in the Earth s history It is also of interest to climate modellers and the wider scientific community with an interest in the latest research on the decline of the Palaeozoic World *Mesozoic Resource Potential in the Southern Permian Basin* B. Kilhams,P.A. Kukla,S. Mazur,T. McKie,H.F. Mijndieff,K. van Ojik,2018-08-31 The Southern Permian Basin as its name suggests is a historical heartland for hydrocarbon production from the Palaeozoic Rotliegend interval However in this mature basin the Mesozoic presents further possibilities to offer resource security to NW Europe Such opportunities include increasing efficiency in the production of discovered hydrocarbons exploration for further hydrocarbons both conventional and unconventional and efficient exploration for and production of geothermal energy All these potential resources require a grounding in technically sound geoscience via traditional scientific observation and the application of new technologies to unlock their value The main aim of this volume is to bring together the work of academics and industry workers to consider cross border geoscience including contributions on Poland Germany The Netherlands the United Kingdom and adjacent areas The work presented intends to contribute to the development and discovery of further Mesozoic energy resources across the basin *Fifty Years of the Wilson Cycle Concept in Plate Tectonics* R.W. Wilson,G.A. Houseman,K.J.W. McCaffrey,A.G. Doré,S.J.H. Buiter,2019-11-11 Fifty years ago Tuzo Wilson published his paper asking Did the Atlantic close and then re open This led to the Wilson Cycle concept in which the repeated opening and closing of ocean basins along old orogenic belts is a

key process in the assembly and breakup of supercontinents The Wilson Cycle underlies much of what we know about the geological evolution of the Earth and its lithosphere and will no doubt continue to be developed as we gain more understanding of the physical processes that control mantle convection plate tectonics and as more data become available from currently less accessible regions This volume includes both thematic and review papers covering various aspects of the Wilson Cycle concept Thematic sections include 1 the Classic Wilson v Supercontinent Cycles 2 Mantle Dynamics in the Wilson Cycle 3 Tectonic Inheritance in the Lithosphere 4 Revisiting Tuzo's question on the Atlantic 5 Opening and Closing of Oceans and 6 Cratonic Basins and their place in the Wilson Cycle *The Variscan Belt of Western Europe, Volume 1* Yoann Denele, Julien Berger, 2023-08-22 This book deals with the geological record and the evolution of ideas concerning the Variscan orogenic belt in France and neighboring regions Volume 1 is based on a general introduction concerning the imprint of the Variscan period on the geology of France as well as on the particularities of the study of this ancient orogen A history of the concepts applied to the Variscan belt is proposed in order to consider this orogen in the history of Earth Sciences A paleogeodynamic analysis of the Variscan cycle sets the general framework for the evolution of the orogen which is then tackled through the prism of the magmatic metamorphic and tectonic record of the early phases from Cambrian to Lower Carboniferous Volume 2 proposes an analysis of the late evolution of the Variscan orogenic belt reflecting its dismantling in a high temperature context during the Upper Carboniferous and Permian The sedimentary archives are described as well as the questions raised by the specificities of this ancient orogen **Shale Tectonics** Lesli J. Wood, 2011-03-01 Hardcover plus CD **Glacially-Triggered Faulting** Holger Steffen, Odleiv Olesen, Raimo Sutinen, 2021-12-16 A comprehensive overview of glacially triggered faulting summarising theory methods and modelling and listing confirmed and proposed glacially induced faults **Permo-Triassic Salt Provinces of Europe, North Africa and the Atlantic Margins** Juan I. Soto, Joan Flinch, Gabor Tari, 2017-06-05 Permo Triassic Salt Provinces of Europe North Africa and the Atlantic Margins Tectonics and Hydrocarbon Potential deals with the evolution and tectonic significance of the Triassic evaporite rocks in the Alpine orogenic system and the Neogene basins in the Iberian Peninsula North Africa and the western Mediterranean As the nature of the Triassic evaporite sequences the varied diapiric structures they feed and the occurrence of hydrocarbons suggest that the Triassic evaporites represent an efficient system to trap hydrocarbons this book explores the topic with a wide swath also devoting content to a relatively unexplored topic the mobilization and deformation of the Triassic salt in the western and northern Tethys from Iberia and North Africa Pyrenees and Alps Adriatic and Ionian during the subsequent Alpine orogenic processes The book includes chapters updating varied topics like the Permian and Triassic chronostratigraphic scales palaeogeographic reconstructions of the western Tethys since the Late Permian the petroleum systems associated with Permo Triassic salt allochthonous salt tectonics and a latest revision of salt tectonic processes in the Permian Zechstein Basin the Atlantic Margins from Barents Sea Scotia Portugal Morocco and Mauritania the

Alpine folded belts in Europe and the various Triassic salt provinces in North Africa The book is the go to guide for salt tectonic researchers and those working in the hydrocarbon exploration industry Presents the first reference book to cover salt tectonics of Permo Triassic period rocks Features case studies of passive margins like the Barents and the North Sea Greenland Nova Scotia offshore Mauritania Morocco and Iberia and folded belts like the Betics Rif Tell Pyrenees Atlas Mountains Alps Balkans Apennines the Adriatic and Ionian Seas and the Zechstein Basin in Norway the UK the Netherlands Germany and Poland Integrates field observations seismic examples well log data and models developed in universities with highly technical and advanced subsurface studies developed by the petroleum industry     **Evaporites** John K.

Warren,2016-05-18 The monograph offers a comprehensive discussion of the role of evaporites in hydrocarbon generation and trapping and new information on low temperature and high temperature ores It also provides a wealth of information on exploitable salts in a comprehensive volume has been assembled and organized to provide quick access to relevant information on all matters related to evaporites and associated brines In addition there are summaries of evaporite karst hazards exploitative methods and problems that can arise in dealing with evaporites in conventional and solution mining This second edition has been revised and extended with three new chapters focusing on ore minerals in different temperature settings and a chapter on meta evaporites Written by a field specialist in research and exploration the book presents a comprehensive overview of the realms of low and high temperature evaporite evolution It is aimed at earth science professionals sedimentologists oil and gas explorers mining geologists as well as environmental geologists     *Sedimentary*

*Facies Reconstruction and Kinematic Restoration of Tight Gas Fields* Anna Alexandra Vackiner,2013-03-20 The thesis of Anna Alexandra Vackiner focuses on the geometric architecture and tectonic evolution of the Permian series combining seismic interpretation 3D block field studies in an analogue basin Panamint Valley in California as well as 2D restoration of representative cross sections through time in order to illustrate the complex interaction between multiphase extension inversion and salt diapirism It will be of major interest for exploration geologists involved in tectonically complex areas Fran ois Roure August 2012 This thesis improves the understanding and localization of the Upper Rotliegend II tight gas reservoir rock facies It provides insights into the detailed Upper Rotliegend II palaeo topography and local tectonically induced sediment thickness changes prior to a multi phase tectonic overprinting The research presented in this study further focuses on the tectonically induced synsedimentary facies distribution in transtensional continental settings on the basis of a comparison with a modern field analogue which enables a detailed analysis of the reservoir rock s distribution and its properties The study is rounded off with an analysis of the influence of the multiphase tectonic overprinting on the mature Upper Rotliegend II reservoir rocks     **Karst Hydrogeology, Geomorphology and Caves** Jo De Waele,Francisco

Gutierrez,2022-06-21 Karst Hydrogeology Geomorphology and Caves A Comprehensive Resource Covering All Aspects of Karst Hydrogeology Geomorphology and Caves This essential book covers all physical chemical and geological aspects of

karst science It reviews current knowledge on hydrogeology geomorphology and caves in karst based on the vast existing literature and investigations carried out by the authors worldwide The different topics are profusely illustrated with color figures and images from all continents and climates showing the scientific and aesthetic appeal of karst environments The book covers in a systematic way the significant features of karst rocks the chemistry and kinetics of their dissolution the rate and distribution of karst denudation the unique hydrogeology of karst terrains the landforms endemic to karst the morphology of caves and their diverse sedimentary records and the multiple processes that lead to the formation of underground voids Overall the work reflects the increasing recognition of karst as a fundamental part of the Earth's dynamic systems and helps readers understand this multidisciplinary field from a holistic and nuts and bolts perspective Some of the ideas discussed within the book include How karst is gaining importance for human development because of its valuable resources groundwater and associated environmental problems impacts and hazards The enormous technological developments achieved in recent years Recent major breakthroughs in the field and their influence on other scientific disciplines The central role played by karst science for understanding and mitigating global environmental issues global warming depletion of resources human induced hazards For all scientists working in karst and for students and lecturers of karst related programs this book serves as a valuable all in one source It is also a valuable resource for professional hydrogeologists the petroleum industry environmental geologists and of course speleologists the last true geographic explorers in the world

**Encyclopedia of Solid Earth Geophysics** Harsh Gupta, 2011-06-29 The past few decades have witnessed the growth of the Earth Sciences in the pursuit of knowledge and understanding of the planet that we live on This development addresses the challenging endeavor to enrich human lives with the bounties of Nature as well as to preserve the planet for the generations to come Solid Earth Geophysics aspires to define and quantify the internal structure and processes of the Earth in terms of the principles of physics and forms the intrinsic framework which other allied disciplines utilize for more specific investigations The first edition of the Encyclopedia of Solid Earth Geophysics was published in 1989 by Van Nostrand Reinhold publishing company More than two decades later this new volume edited by Prof Harsh K Gupta represents a thoroughly revised and expanded reference work It brings together more than 200 articles covering established and new concepts of Geophysics across the various sub disciplines such as Gravity Geodesy Geomagnetism Seismology Seismics Deep Earth Processes Plate Tectonics Thermal Domains Computational Methods etc in a systematic and consistent format and standard It is an authoritative and current reference source with extraordinary width of scope It draws its unique strength from the expert contributions of editors and authors across the globe It is designed to serve as a valuable and cherished source of information for current and future generations of professionals

Characterization of an Upper Permian Tight Gas Reservoir Philipp Antrett, 2013-03-22 The thesis of Philipp Antrett is focused on reservoir properties petrography lithofacies and sedimentology core analysis and nanoporosity studies It will be of major interest for colleagues

involved in the exploration and production of tight gas reservoirs in Northern Europe and elsewhere François Roure August 2012 This thesis describes a multidisciplinary multiscale approach to the analysis of tight gas reservoirs It focused initially on the facies architecture of a Permian tight gas field in the Southern Permian Basin SPB East Frisia northern Germany To improve field development 3D seismic data wireline and core data were compared to a reservoir analogue in the Panamint Valley California United States In addition to the large scale approach a work flow that investigates microporosity by combining Scanning Electron Microscopy Broad Ion Beam SEM BIB and optical microscopy was developed For a better understanding of the depositional environment and reservoir rock distribution in the SPB a sedimentary facies analysis of four cores from the tight gas field in East Frisia was compared to a second study area in northern central Germany This study demonstrates that tight gas exploration and production requires multidisciplinary multiscale approaches beyond standard seismic interpretation work flows to better understand the temporal and spatial evolution of these complex reservoirs

*Impact of grain coats on quartz overgrowth and Reservoir properties* Busch, Benjamin, 2017-07-28 Syntaxial overgrowth cementation and thereby reservoir quality can be affected by grain coating phases inhibiting nucleation Reaction kinetics provide a means to model the development of cement phases over time Additional algorithms constraining compaction behavior porosity and permeability development are used to model reservoir quality Sub vertical deformation bands can compartmentalize reservoirs by impacting bed parallel permeability and preserve geochemical alterations

**Supercontinents, Orogenesis and Magmatism** R.D. Nance, R.A. Strachan, C. Quesada, S. Lin, 2024-04-24 This volume is a tribute to the career of J Brendan Murphy and features papers by over 100 authors from countries all over the world a testament to the high profile and far reaching influence of Brendan's work The topics covered fall into three broad categories that encompass Brendan's main fields of influence 1 supercontinents and the supercontinent cycle including reconstructions and modelling 2 orogenesis and terranes with a focus on the Appalachian Variscan and Central Asian orogenic belts and the oceans with which they are associated and 3 magmatism and magmatic processes centring on the geochemistry and isotopic compositions of magmas in arc and rift setting Like Brendan's own research the scope of the papers spans the globe and ranges from strongly field based studies to conceptual analyses All of the articles however are focused on unravelling some critical aspect of geology or aimed at clarifying some crucial geological process Hence they also share a theme common to Brendan's many contributions in emphasizing the importance of process oriented research *Integrated Aquifer*

*Characterization and Modeling for Energy Sustainability* M.R. Fassihi, J.P. Blangy, 2022-12-27 The greatest challenge facing humanity today is the transition to a more sustainable energy infrastructure while reducing greenhouse gas emissions Meeting this challenge will require a diversified array of solutions spanning across multiple industries One of the solutions rising to the fore is the potential to rapidly build out carbon sequestration which involves the removal of CO<sub>2</sub> from the atmosphere and its storage in the subsurface *Integrated Aquifer Characterization and Modeling for Energy Sustainability* Key

Lessons from the Petroleum Industry provides a comprehensive and practical technical guide into the potential that aquifers hold as sites for carbon and energy storage. Aquifers occupy a significant part of the Earth's available volume in the subsurface and thus hold immense potential as sites for carbon storage. Many aquifers have been studied extensively as part of oil and gas energy development projects and as such they represent an opportunity to sequester carbon within existing areas of infrastructure that have already been impacted by and integrated into an inherited energy framework. Moreover, future efforts to reconfigure the landscape of our national and global energy systems can extract valuable lessons from this existing trove of data and expertise. From a multidisciplinary perspective, this book provides a valuable and up-to-date overview of how we can draw on the wealth of existing technologies and data deployed by the petroleum industry in the transition to a more sustainable future. Integrated Aquifer Characterization and Modeling for Energy Sustainability will be of value to academic, professional, and business audiences who wish to evaluate the potential underground storage of carbon and/or energy and for policy makers in developing the right policy tools to further the goals of a sustainable energy transition.

CLEAN Michael Kühn, Ute Münch, 2012-12-14 The project CLEAN CO<sub>2</sub> Large Scale Enhanced Gas Recovery in the Altmark Natural Gas Field provides site-specific knowledge for a potential future pilot project. This contributed volume gives an overview and final results of the entire project, which is finalized to the end of 2012. **Reservoir Characterization of Tight Gas Sandstones** Ali Kadkhodaie, Rahim Kadkhodaie, 2022-08-10 Reservoir Characterization of Tight Gas Sandstones Exploration and Development is essential reading for those working in oil and gas exploration both in industry and academia, as it contains chapters that help them further understand all aspects of tight gas reservoirs. In this book, experts in industry and academia update readers on new methods of tight gas reservoir modeling and evaluation. As there are very limited published books in the field of tight sandstones, this book will benefit readers by making them familiar with state-of-art methods of tight gas sandstones characterization and evaluation. Features case studies from countries with considerable tight gas sandstones such as the United States, China, Canada, and Australia. Includes recent developments in sedimentological, petrophysical, reservoir modeling, and fracking technologies of tight gas sandstone reservoirs. Covers applications for the characterization and evaluation of tight sandstones for the methodologies presented. **United Kingdom Oil and Gas Fields** G. Goffey, J.G. Gluyas, 2020-12-03 Geological Society Memoir 52 records the extraordinary 50-year journey that has led to the development of some 458 oil and gas fields on the UKCS. It contains papers on almost 150 onshore and offshore fields in all of the UK's main petroliferous basins. These papers range from look-backs on some of the first developed gas fields in the Southern North Sea to papers on fields that have only just been brought into production or may still remain undeveloped and includes two candidate CO<sub>2</sub> sequestration projects. These papers are intended to provide a consistent summary of the exploration, appraisal, development, and production history of each field, leading to the current subsurface understanding, which is described in greater detail. As such, the Memoir will be an enduring reference source for those exploring for



developing producing hydrocarbons and sequestering CO<sub>2</sub> on the UKCS in the coming decades It encapsulates the petroleum industry s deep subsurface knowledge accrued over more than 50 years of exploration and production     **Opening and Closure of the Neuquén Basin in the Southern Andes** Diego Kietzmann,Andrés Folguera,2020-01-14 This book provides an overview of newly gathered material focusing on the opening and closure of The Neuquén Basin The Neuquén Basin contains the most important hydrocarbon reservoirs in Argentina and therefore is characterized by a profound knowledge of the sedimentation mechanisms and closure times During the last 10 years a considerable amount of new information has been produced that illustrates a complex evolution that involves more than one synrift stage during its evolution an aborted sag phase associated with the inception of a first foreland basin in late Early Cretaceous times two extensional destabilizations in the Late Cretaceous Paleocene and late Oligocene times and a Neogene magmatic expansion coetaneous to a last mountain building These processes have produced a polyphasic complex structure that exhumed the rich sedimentary record that characterizes the basin

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