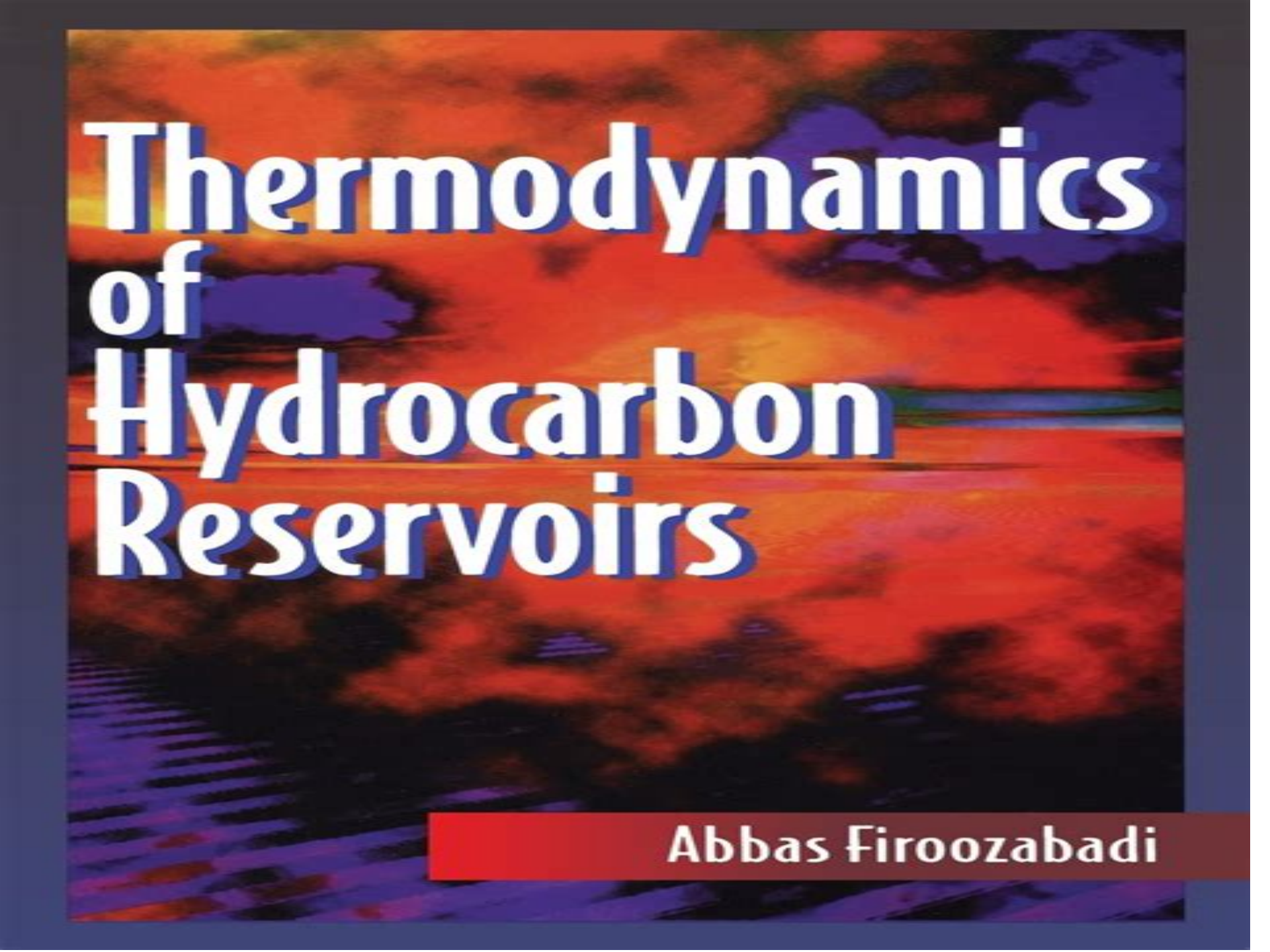




Thermodynamics of Hydrocarbon Reservoirs

Abbas Firoozabadi

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William G. Gray, Cass T. Miller



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Thermodynamics Juan Carlos Moreno Piraján, 2011-09-22 Thermodynamics is one of the most exciting branches of physical chemistry which has greatly contributed to the modern science. Being concentrated on a wide range of applications of thermodynamics, this book gathers a series of contributions by the finest scientists in the world gathered in an orderly manner. It can be used in post graduate courses for students and as a reference book as it is written in a language pleasing to the reader. It can also serve as a reference material for researchers to whom the thermodynamics is one of the areas of interest.

Thermodynamics and Applications in Hydrocarbon Reservoirs and Production Abbas Firoozabadi, 2013
Compositional Grading in Oil and Gas Reservoirs Rogerio Oliveira Esposito, Pedro Henrique Rodrigues Alijó, Jose Antonio Scilipoti, Frederico Wanderley Tavares, 2017-05-26 Compositional Grading in Oil and Gas Reservoirs offers instruction, examples and case studies on how to answer the challenges of modeling a compositional gradient subject. Starting with the basics on PVT analysis, applied thermodynamics and full derivations of irreversible thermodynamic based equations, this critical reference explains gravity modified equations to be applied to reservoirs, enabling engineers to obtain fluid composition at any point of the reservoir from measured data to create a stronger model calibration. Once model parameters are re-estimated, new sensibility can be acquired for more accurate modeling of composition, aiding engineers with stronger production curves, reserve estimations and design of future development strategies. Multiple examples and case studies are

included to show the application of the theory from very simple to more complex systems such as actual reservoirs influenced by thermal diffusion and gravity simultaneously Other example include a layer for which asphaltene precipitation takes place in the reservoir and three phase flash algorithms for liquid liquid vapor equilibrium calculations detailing the techniques necessary to ensure convergence The book combines practical studies with the importance in modeling more complex phenomena filling a gap for current and upcoming reservoir engineers to expand on solutions and make sense of their reservoir s output results Presents a deeper level of detail on the heterogeneity composition and thermo physical properties of petroleum fluids in the reservoir Includes tactics on how to Increase reliability of reservoir simulation initialization with practice examples at the end of each chapter Helps readers make sense of compositional grading with coverage on both theory and application that fulfill a gap in research on reservoir simulation

Measurement of the Thermodynamic Properties of Single Phases Anthony Goodwin,KN Marsh,WA Wakeham,2003-07-03 This title is a revision of Experimental Thermodynamics Volume II published in 1975 reflecting the significant technological developments and new methods introduced into the study of measurement of thermodynamic quantities The editors of this volume were assigned the task of assembling an international team of distinguished experimentalists to describe the current state of development of the techniques of measurement of the thermodynamic quantities of single phases The resulting volume admirably fulfils this brief and contains a valuable summary of a large variety of experimental techniques applicable over a wide range of thermodynamic states with an emphasis on the precision and accuracy of the results obtained Those interested in the art of measurements and in particular engaged in the measurement of thermodynamic properties will find this material invaluable for the guidance it provides towards the development of new and more accurate techniques Provides detailed descriptions of experimental chemical thermodynamic methods Strong practical bias and includes both detailed working equations and figures for the experimental methods Most comprehensive text in this field since the publication of Experimental Thermodynamics II

Thermodynamics of Geothermal Fluids Andri Stefánsson,Thomas Driesner,Pascale Bénézech,2018-12-17 Volume 76 of Reviews in Mineralogy and Geochemistry presents an extended review of the topics conveyed in a short course on Geothermal Fluid Thermodynamics held prior to the 23rd Annual V M Goldschmidt Conference in Florence Italy August 24 25 2013 It covers Thermodynamics of Geothermal Fluids The Molecular Scale Fundament of Geothermal Fluid Thermodynamics Thermodynamics of Aqueous Species at High Temperatures and Pressures Equations of State and Transport Theory Mineral Solubility and Aqueous Speciation Under Hydrothermal Conditions to 300 C The Carbonate System as an Example Thermodynamic Modeling of Fluid Rock Interaction at Mid Crustal to Upper Mantle Conditions Speciation and Transport of Metals and Metalloids in Geological Vapors Solution Calorimetry Under Hydrothermal Conditions Structure and Thermodynamics of Subduction Zone Fluids from Spectroscopic Studies and Thermodynamics of Organic Transformations in Hydrothermal Fluids

Unconventional Hydrocarbon Resources Reza

Barati, Mustafa M. Alhubail, 2020-11-11 A comprehensive textbook presenting techniques for the analysis and characterization of shale plays Significant reserves of hydrocarbons cannot be extracted using conventional methods Improvements in techniques such as horizontal drilling and hydraulic fracturing have increased access to unconventional hydrocarbon resources ushering in the shale boom and disrupting the energy sector Unconventional Hydrocarbon Resources Techniques for Reservoir Engineering Analysis covers the geochemistry petrophysics geomechanics and economics of unconventional shale oil plays The text uses a step by step approach to demonstrate industry standard workflows for calculating resource volume and optimizing the extraction process Volume highlights include Methods for rock and fluid characterization of unconventional shale plays A workflow for analyzing wells with stimulated reservoir volume regions An unconventional approach to understanding of fluid flow through porous media A comprehensive summary of discoveries of massive shale resources worldwide Data from Eagle Ford Woodford Wolfcamp and The Bakken shale plays Examples homework assignments projects and access to supplementary online resources Hands on teaching materials for use in petroleum engineering software applications The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

Fundamentals of Enhanced Oil and Gas Recovery from Conventional and Unconventional Reservoirs Alireza Bahadori, 2018-08-18 Fundamentals of Enhanced Oil and Gas Recovery from Conventional and Unconventional Reservoirs delivers the proper foundation on all types of currently utilized and upcoming enhanced oil recovery including methods used in emerging unconventional reservoirs Going beyond traditional secondary methods this reference includes advanced water based EOR methods which are becoming more popular due to CO₂ injection methods used in EOR and methods specific to target shale oil and gas activity Rounding out with a chapter devoted to optimizing the application and economy of EOR methods the book brings reservoir and petroleum engineers up to speed on the latest studies to apply Enhanced oil recovery continues to grow in technology and with ongoing unconventional reservoir activity underway enhanced oil recovery methods of many kinds will continue to gain in studies and scientific advancements Reservoir engineers currently have multiple outlets to gain knowledge and are in need of one product go to reference Explains enhanced oil recovery methods focusing specifically on those used for unconventional reservoirs Includes real world case studies and examples to further illustrate points Creates a practical and theoretical foundation with multiple contributors from various backgrounds Includes a full range of the latest and future methods for enhanced oil recovery including chemical waterflooding CO₂ injection and thermal

Introduction to the Thermodynamically Constrained Averaging Theory for Porous Medium Systems William G. Gray, Cass T. Miller, 2014-02-19 Thermodynamically constrained averaging theory provides a consistent method for upscaling conservation and thermodynamic equations for application in the study of porous medium systems The method provides dynamic equations for phases interfaces and

common curves that are closely based on insights from the entropy inequality All larger scale variables in the equations are explicitly defined in terms of their microscale precursors facilitating the determination of important parameters and macroscale state equations based on microscale experimental and computational analysis The method requires that all assumptions that lead to a particular equation form be explicitly indicated a restriction which is useful in ascertaining the range of applicability of a model as well as potential sources of error and opportunities to improve the analysis

Understanding Petroleum Reservoirs John M. Cubitt, William A. England, Steve R. Larter, 2004 *Multiphase Transport of Hydrocarbons in Pipes* Juan J. Manzano-Ruiz, Jose G. Carballo, 2024-04-09

Multiphase Transport of Hydrocarbons in Pipes An introduction to multiphase flows in the oil and gas industry The term multiphase flow refers to the concurrent flow of oil and or gas alongside other substances or materials such as production water chemical inhibitors and solids e g sand This is a critical topic in the oil and gas industry where the presence of multiple flow phases in pipelines affects deliverability generates serious complications in predicting flow performance for system design and operation and requires specific risk mitigation actions and continuous maintenance Chemical and Mechanical Engineers interested in working in this industry will benefit from understanding the basic theories and practices required to model and operate multiphase flows through pipelines wells and other components of the production system *Multiphase Transport of Hydrocarbons in Pipes* meets this need with a comprehensive overview of five decades of research into multiphase flow Incorporating fundamental theories historic and cutting edge multiphase flow models and concrete examples of current and future applications This book provides a sound technical background for prospective or working engineers in need of understanding this crucial area of industry Readers will also find Fundamental principles supporting commercial software Detailed tools for estimating multiphase flow rates through flowlines wells and more Integration of conservation principles with thermodynamic and transport properties Coverage of legacy and modern simulation models This book is ideal for flow assurance engineers facilities engineers oil and gas production engineers and process engineers as well as chemical and mechanical engineering students looking to work in any of these roles

Thermodynamics and Applications of Hydrocarbon Energy Production Abbas Firoozabadi, 2015-06-22 This state of the art guide presents a systematic methodology for applying thermodynamics principles in the many areas of the hydrocarbon energy industry *Thermodynamics and Applications in Hydrocarbon Energy Production* lays out a unified view of classical thermodynamics and teaches how to effectively put those theories to work in fuel exploration preparation and refinement Shale gas and oil development is a relatively new subject in petroleum engineering and is the main focus of the U S energy industry this book addresses these important issues The use of thermodynamics in reservoir transportation system surface facility and refinery development is covered in full detail Advanced chapters explain leading edge techniques including molecular simulation High quality illustrations and tables are featured throughout Each chapter includes examples theory extensions and problems Provides practical solutions to key

engineering problems Written by a world renowned petroleum reservoir engineering expert *Characterization and Properties of Petroleum Fractions* M. R. Riazi, 2005 The last three chapters of this book deal with application of methods presented in previous chapters to estimate various thermodynamic physical and transport properties of petroleum fractions In this chapter various methods for prediction of physical and thermodynamic properties of pure hydrocarbons and their mixtures petroleum fractions crude oils natural gases and reservoir fluids are presented As it was discussed in Chapters 5 and 6 properties of gases may be estimated more accurately than properties of liquids Theoretical methods of Chapters 5 and 6 for estimation of thermophysical properties generally can be applied to both liquids and gases however more accurate properties can be predicted through empirical correlations particularly developed for liquids When these correlations are developed with some theoretical basis they are more accurate and have wider range of applications In this chapter some of these semitheoretical correlations are presented Methods presented in Chapters 5 and 6 can be used to estimate properties such as density enthalpy heat capacity heat of vaporization and vapor pressure Characterization methods of Chapters 2 4 are used to determine the input parameters needed for various predictive methods One important part of this chapter is prediction of vapor pressure that is needed for vapor liquid equilibrium calculations of Chapter 9

Reservoir Simulation Zhangxin Chen, 2007-01-01 Beginning with an overview of classical reservoir engineering and basic reservoir simulation methods this book then progresses through a discussion of types of flows single phase two phase black oil three phase single phase with multi components compositional and thermal The author provides a thorough glossary of petroleum engineering terms and their units along with basic flow and transport equations and their unusual features and corresponding rock and fluid properties The book also summarises the practical aspects of reservoir simulation such as data gathering and analysis and reservoir performance prediction Suitable as a text for advanced undergraduate and first year graduate students in geology petroleum engineering and applied mathematics as a reference book or as a handbook for practitioners in the oil industry Prerequisites are calculus basic physics and some knowledge of partial differential equations and matrix algebra

Enhanced Oil Recovery Field Case Studies James J. Sheng, 2013-04-10 Enhanced Oil Recovery Field Case Studies bridges the gap between theory and practice in a range of real world EOR settings Areas covered include steam and polymer flooding use of foam in situ combustion microorganisms smart water based EOR in carbonates and sandstones and many more Oil industry professionals know that the key to a successful enhanced oil recovery project lies in anticipating the differences between plans and the realities found in the field This book aids that effort providing valuable case studies from more than 250 EOR pilot and field applications in a variety of oil fields The case studies cover practical problems underlying theoretical and modeling methods operational parameters solutions and sensitivity studies and performance optimization strategies benefitting academicians and oil company practitioners alike Strikes an ideal balance between theory and practice Focuses on practical problems underlying theoretical and modeling methods and operational parameters Designed for technical

professionals covering the fundamental as well as the advanced aspects of EOR

Essentials of Flow Assurance Solids in Oil and Gas Operations Abdullah Hussein, 2022-10-19 Flow assurance solids deposition is one of the main challenges in oil and gas production operations with millions of dollars spent annually on their mitigation Essentials of Flow Assurance Solids in Oil and Gas Operations works as an all inclusive reference for engineers and researchers covering all the different types of solids that are commonly encountered in oil and gas fields Structured to flow through real world operations the reference branches through each solid deposit problem where the root causes are as well as modeling monitoring characterization and management strategies all comprehensively reviewed in the light of contemporary research breakthroughs Backed by several field case studies Essentials of Flow Assurance Solids in Oil and Gas Operations gives petroleum and reservoir engineers a resource to correlate between the theoretical fundamentals and field practical applications allowing for sustainable and optimal operations Provides the main operations of oil and gas fields the characteristics of produced fluids and the main flow assurance challenges Furnishes the basic principles of deposits formation and mitigation starting with a full investigation of the problems then mechanisms causes predictions modelling and sample analysis followed by management Distinctively discusses the operational and environmental implications of flow assurance solids and their management using chemical and nonchemical methods Teaches engineers through impactful visuals and data sets included in every chapter

Physics of Fluids in Microgravity Rodolfo Monti, 2002-01-10 In a microgravity experiment the conditions prevalent in fluid phases can be substantially different from those on the ground and can be exploited to improve different processes Fluid physics research in microgravity is important for the advancement of all microgravity sciences life material and engineering Space flight provides a unique laboratory that allows scientists to improve their understanding of the behaviour of fluids in low gravity allowing the investigation of phenomena and processes normally masked by the effects of gravity and thus difficult to study on Earth Physics of Fluids in Microgravity provides a clear view of recent research and progress in the different fields of fluid research in space The topics presented include bubbles and drops dynamics Marangoni flows diffusion and thermodiffusion solidification and crystal growth The results obtained so far are in some cases to be confirmed by extensive research activities on the International Space station where basic and applied microgravity experimentation will take place in the years to come

Fundamentals and Practical Aspects of Gas Injection Reza Azin, Amin Izadpanahi, 2021-07-28 This book covers different aspects of gas injection from the classic pressure maintenance operation to enhanced oil recovery EOR underground gas storage UGS and carbon capture and storage CCS The authors detail the unique characteristics and specific criteria of each application including material balance equations phase behaviour reservoir engineering well design operating aspects surface facilities environmental issues Examples data and simulation codes are provided to enable the reader to gain an in depth understanding of these applications Fundamentals and Practical Aspects of Gas Injection will be of use to practising engineers in the fields of

reservoir engineering and enhanced oil recovery It will also be of interest to researchers academics and graduate students working in the field of petroleum engineering

Challenges in Modelling and Simulation of Shale Gas Reservoirs

Jebraeel Gholinezhad, John Senam Fianu, Mohamed Galal Hassan, 2017-12-27 This book addresses the problems involved in the modelling and simulation of shale gas reservoirs and details recent advances in the field It discusses various modelling and simulation challenges such as the complexity of fracture networks adsorption phenomena non Darcy flow and natural fracture networks presenting the latest findings in these areas It also discusses the difficulties of developing shale gas models and compares analytical modelling and numerical simulations of shale gas reservoirs with those of conventional reservoirs Offering a comprehensive review of the state of the art in developing shale gas models and simulators in the upstream oil industry it allows readers to gain a better understanding of these reservoirs and encourages more systematic research on efficient exploitation of shale gas plays It is a valuable resource for researchers interested in the modelling of unconventional reservoirs and graduate students studying reservoir engineering It is also of interest to practising reservoir and production engineers

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