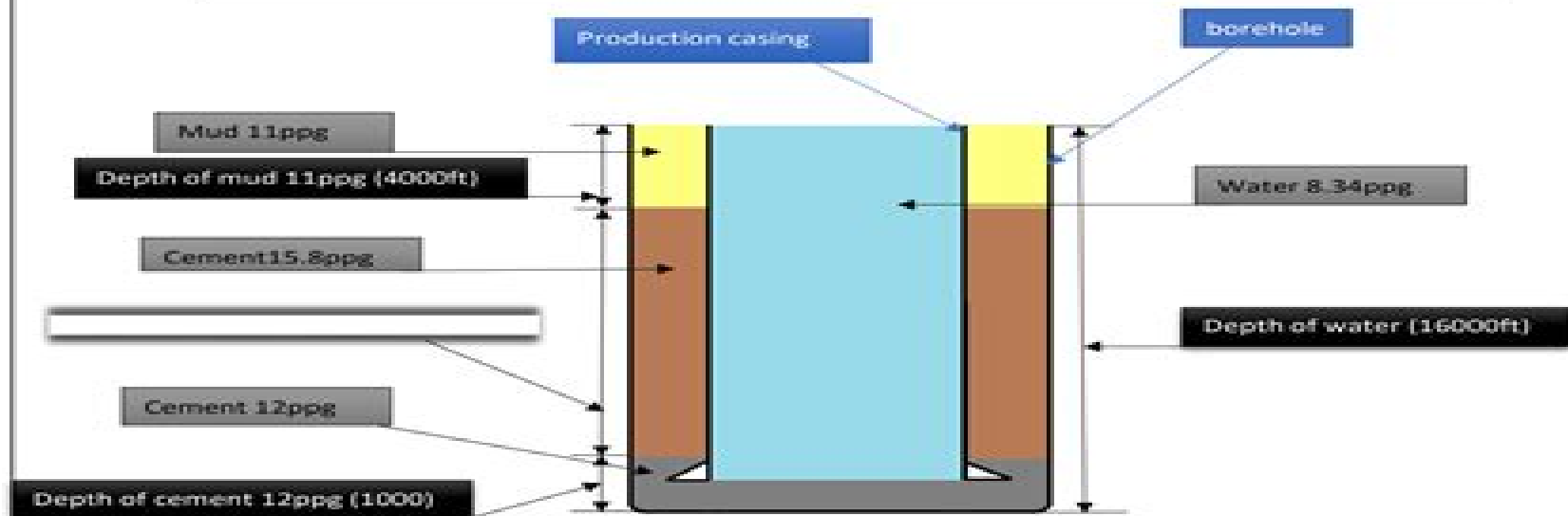


Q1/ A production section in a planned to be drilled to a depth of 16,000ft. using mud weight of 11ppg. and 12.55-inch bit size to run 9 5/8-inch casing and cement it in this section. There are two casing types available as per the specifications shown in the below table.

Casing NO.	Grade	OD (inch)	ID (inch)	Length (ft)	$P_{collapse}$ (psi)	P_{burst} (psi)
1	K-55	9.625	8.535	40.0	5450	5130
2	C-75	9.625	8.279	40.0	9177	7570

From previous experiences it is found that production casing design depend mainly on collapse pressure. Design factor for collapse was set to be 1.15. casing has to be cemented and the top of cement will be at 4,000ft using 15.8 ppg tail cement 12ppg at 15,000ft. cement slurry will be displaced using water with 8.34ppg. from the above information what are the casing that withstand the collapse and burst pressure?

Solution



Matlab Petroleum Engineering

Ghosh, Pallab



Matlab Petroleum Engineering:

Introduction to Matlab for Chemical & Petroleum Engineering Sam Toan, Bahareh Nojabaei, Hertanto Adidharma, 2016-08-17 The importance of using computer aided calculations for engineers is evident nowadays Several classes in universities are taught to help engineering students become comfortable in using computation tools The purpose of this book is to provide a useful reference for students specifically chemical and petroleum engineering majors and learn computer programming using MATLAB MATLAB is a very good tool as it has various built in functions MATLAB also has very easy to use graphing tools These capabilities and features of MATLAB make it a perfect computational tool for undergraduate level engineering students The book chapters are designed to cover most of the topics in chemical and petroleum engineering required courses We first introduce the basics of programming as well as plotting features in MATLAB The students learn how to solve linear and nonlinear equations and system of equations using MATLAB in Chapter 6 Curve fitting and interpolation are covered in Chapter 7 The focus of the last several chapters is mostly on differentiation integration and solving ordinary and partial differential equations We provide chemical and petroleum engineering related examples in each chapter Furthermore some numerical methods that can be utilized at both the undergraduate and graduate levels are also discussed We the authors hope that this book would be helpful for both engineering students and instructors

Introduction to Matlab for Chemical & Petroleum Engineering Sam Toan, Hertanto Adidharma, Bahareh Nojabaei, 2017-07-30 For engineers today the importance of mastering computer aided calculations is becoming increasingly evident Universities around the world recognize the discipline as essential to success as an engineer and in turn offer an array of courses to help engineering students become comfortable using computational methods The purpose of this book is to serve as a useful reference and guide as students specifically chemical and petroleum engineering majors learn computational programming using MATLAB MATLAB is a very robust program with various built in analytical functions and easy to use plotting tools MATLAB's capabilities features and intuitive design make it an exceptional computational tool for undergraduate level engineering students The chapters contained in this book cover most of the topics in required chemical and petroleum engineering courses In Chapters 1 through 5 we introduce the reader to the basics of programming and plotting in MATLAB In Chapter 6 students learn how to use MATLAB to solve linear and nonlinear equations and systems of equations We cover curve fitting and interpolation in Chapter 7 The focus of the final chapters shifts to differentiation integration and solving ordinary and partial differential equations We provide chemical and petroleum engineering related examples in each chapter Along the way we also discuss various numerical methods that can be applied at both the undergraduate and graduate levels We the authors hope that this book will be helpful to engineering students and instructors alike

MATLAB SOFTWARE FOR CHEMICAL AND PETROLEUM ENGINEERING (PART TWO) Ahmmed Saadi Ibrahim, 2010 In this work provide a lot of examples in different fields of chemical engineering and how to design accurate

solutions by using MATLAB software Chapter 1 provides 24 examples to undergraduate students how to enter and use Matlab software to solve the problems Chapter 2 provides 30 examples in fluid flow includes different problems and how to solve these problems by programming Chapter 3 provides 44 examples in mass and energy balance with another applications includes different problems and how to solve these problems by programming Chapter 4 provides 12 examples in modeling and chemical reaction design includes different problems and how to solve these problems by programming

Introduction to Chemical Engineering Uche P. Nnaji, 2019-09-30 The field of chemical engineering is undergoing a global renaissance with new processes equipment and sources changing literally every day It is a dynamic important area of study and the basis for some of the most lucrative and integral fields of science Introduction to Chemical Engineering offers a comprehensive overview of the concept principles and applications of chemical engineering It explains the distinct chemical engineering knowledge which gave rise to a general purpose technology and broadest engineering field The book serves as a conduit between college education and the real world chemical engineering practice It answers many questions students and young engineers often ask which include How is what I studied in the classroom being applied in the industrial setting What steps do I need to take to become a professional chemical engineer What are the career diversities in chemical engineering and the engineering knowledge required How is chemical engineering design done in real world What are the chemical engineering computer tools and their applications What are the prospects present and future challenges of chemical engineering And so on It also provides the information new chemical engineering hires would need to excel and cross the critical novice engineer stage of their career It is expected that this book will enhance students understanding and performance in the field and the development of the profession worldwide Whether a new hire engineer or a veteran in the field this is a must have volume for any chemical engineer's library

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Knut-Andreas Lie, 2019 This book provides a self contained introduction to the simulation of flow and transport in porous media written by a developer of numerical methods The reader will learn how to implement reservoir simulation models and computational algorithms in a robust and efficient manner The book contains a large number of numerical examples all fully equipped with online code and data allowing the reader to reproduce results and use them as a starting point for their own work All of the examples in the book are based on the MATLAB Reservoir Simulation Toolbox MRST an open source toolbox popular popularity in both academic institutions and the petroleum industry The book can also be seen as a user guide to the MRST software It will prove invaluable for researchers professionals and advanced students using reservoir simulation methods This title is also available as Open Access on Cambridge Core

MATLAB Applications in Chemical Engineering Chyi-Tsong Chen, 2022-05-20 This book addresses the applications of MATLAB and Simulink in the solution of chemical engineering problems By classifying the problems into seven different categories the author organizes this book as follows Chapter One Solution of a System of Linear Equations Chapter Two Solution of Nonlinear Equations Chapter Three

Interpolation Differentiation and Integration Chapter Four Numerical Solution of Ordinary Differential Equations Chapter Five Numerical solution of Partial Differential Equations Chapter Six Process Optimization Chapter Seven Parameter Estimation Each chapter is arranged in four major parts In the first part the basic problem patterns that can be solved with MATLAB are presented The second part describes how to apply MATLAB commands to solve the formulated problems in the field of chemical engineering In the third and the fourth parts exercises and summary of MATLAB instructions are provided respectively The description of the chemical engineering example follows the sequence of problem formulation model analysis MATLAB program design execution results and discussion In this way learners are first aware of the basic problem patterns and the underlying chemical engineering principles followed by further familiarizing themselves with the relevant MATLAB instructions and programming skills Readers are encouraged to do exercises to practice their problem solving skills and deepen the fundamental knowledge of chemical engineering and relevant application problems The table of contents is listed below

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Chemical Engineering Computation with MATLAB® Yeong Koo Yeo, 2017-08-01

Most problems encountered in chemical engineering are sophisticated and interdisciplinary Thus it is important for today's engineering students researchers and professionals to be proficient in the use of software tools for problem solving MATLAB is one such tool that is distinguished by the ability to perform calculations in vector matrix form a

large library of built in functions strong structural language and a rich set of graphical visualization tools Furthermore MATLAB integrates computations visualization and programming in an intuitive user friendly environment Chemical Engineering Computation with MATLAB presents basic to advanced levels of problem solving techniques using MATLAB as the computation environment The book provides examples and problems extracted from core chemical engineering subject areas and presents a basic instruction in the use of MATLAB for problem solving It provides many examples and exercises and extensive problem solving instruction and solutions for various problems Solutions are developed using fundamental principles to construct mathematical models and an equation oriented approach is used to generate numerical results A wealth of examples demonstrate the implementation of various problem solving approaches and methodologies for problem formulation problem solving analysis and presentation as well as visualization and documentation of results This book also provides aid with advanced problems that are often encountered in graduate research and industrial operations such as nonlinear regression parameter estimation in differential systems two point boundary value problems and partial differential equations and optimization

Chemical Process Engineering Volume 1 Rahmat Sotudeh-Gharebagh,A. Kayode Coker,2022-05-03 Written by two of the most prolific and respected chemical engineers in the world this groundbreaking two volume set is the new standard in the industry offering engineers and students alike the most up to date comprehensive and state of the art coverage of processes and best practices in the field today This first new volume in a two volume set explores and describes integrating new tools for engineering education and practice for better utilization of the existing knowledge on process design Useful not only for students professors scientists and practitioners especially process chemical mechanical and metallurgical engineers it is also a valuable reference for other engineers consultants technicians and scientists concerned about various aspects of industrial design The text can be considered as a complementary text to process design for senior and graduate students as well as a hands on reference work or refresher for engineers at entry level The contents of the book can also be taught in intensive workshops in the oil gas petrochemical biochemical and process industries The book provides a detailed description and hands on experience on process design in chemical engineering and it is an integrated text that focuses on practical design with new tools such as Excel spreadsheets and UniSim simulation software Written by two industry and university s most trustworthy and well known authors this book is the new standard in chemical biochemical pharmaceutical petrochemical and petroleum refining Covering design analysis simulation integration and perhaps most importantly the practical application of Microsoft Excel UniSim software this is the most comprehensive and up to date coverage of all of the latest developments in the industry It is a must have for any engineer or student s library

MATLAB Numerical Methods with Chemical Engineering Applications Kamal I. M. Al-Malah,2013-07-31 A practical professional guide to MATLAB computational techniques and engineering applications MATLAB Numerical Methods with Chemical Engineering Applications shows you step by step how to use MATLAB to model and simulate physical

problems in the chemical engineering realm Written for MATLAB 7 11 this hands on resource contains concise explanations of essential MATLAB commands as well as easy to follow instructions for using the programming features graphical capabilities and desktop interface Every step needed toward the final solution is algorithmically explained via snapshots of the MATLAB platform in parallel with the text End of chapter problems help you practice what you ve learned Master this powerful computational tool using this detailed self teaching guide

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Computational Techniques for Process Simulation and Analysis Using MATLAB® Niket S. Kaisare, 2017-09-18 MATLAB has become one of the prominent languages used in research and industry and often described as the language of technical computing The focus of this book will be to highlight the use of MATLAB in technical computing or more specifically in solving problems in Process Simulations This book aims to bring a practical approach to expounding theories both numerical aspects of stability and convergence as well as linear and nonlinear analysis of systems The book is divided into three parts which are laid out with a Process Analysis viewpoint First part covers system dynamics followed by solution of linear and nonlinear equations including Differential Algebraic Equations DAE while the last part covers function approximation and optimization Intended to be an advanced level textbook for numerical methods simulation and analysis of process systems and computational programming lab it covers following key points Comprehensive coverage of numerical analyses based on MATLAB for chemical process examples Includes analysis of transient behavior of chemical processes Discusses coding hygiene process animation and GUI exclusively Treatment of process dynamics linear stability nonlinear analysis and function approximation through contemporary examples Focus on simulation using MATLAB to solve ODEs and PDEs that are frequently encountered in process systems

Chemical Engineering Analysis and Optimization Using MATLAB Weiguo Xie, Sam Toan, Richard Davis, 2024-12-16 Tackle challenging optimization problems with MATLAB software Optimization techniques measure the minimum or maximum value of a given function depending on circumstances constraints and key factors Engineering processes pertaining to design or manufacture involve optimization techniques at every stage designed to minimize resource expenditure and maximize outcomes Optimization problems can be challenging and computationally intensive but the increasingly widely used MATLAB platform offers numerous tools enabling engineers to tackle these essential elements of process and industrial design Chemical Engineering Analysis and Optimization Using MATLAB introduces cutting edge highly in demand skills in computer aided design and optimization With a focus on chemical engineering analysis the book uses the MATLAB platform to develop reader skills in programming modeling and more It provides an overview of some of the most essential tools in modern engineering design Chemical Engineering Analysis and Optimization Using MATLAB readers will also find Case studies for developing specific skills in MATLAB and beyond

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Abul Hasan Siddiqi, Mohamed Al-Lawati, Messaoud Boulbrachene, 2017-12-22 This book is a compendium of fundamental mathematical concepts methods models and their wide range of applications in diverse fields of engineering It comprises essentially a comprehensive and contemporary coverage of those areas of mathematics which provide foundation to electronic electrical communication petroleum chemical civil mechanical biomedical software and financial engineering It gives a fairly extensive treatment of some of the recent developments in mathematics which have found very significant applications to engineering problems **Structural Geology** David D. Pollard, Stephen J. Martel, 2020-07-23 Tackling

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Computation with MATLAB Yeong Koo Yeo, 2021 This new edition continues to present basic to advanced levels of problem solving techniques using MATLAB It provides even more examples and problems extracted from core chemical engineering subject areas and all code is updated to MATLAB version 2020 It also includes a new chapter on computational intelligence

Quantitative Structural Geology David D. Pollard, Stephen J. Martel, 2020-07-23 A pioneering single semester undergraduate textbook that balances descriptive and quantitative analysis of geological structures **NUMERICAL,**

SYMBOLIC AND STATISTICAL COMPUTING FOR CHEMICAL ENGINEERS USING MATLAB Ghosh, Pallab, 2018-09-01 Numerical analytical and statistical computations are routine affairs for chemical engineers They usually prefer a single software to solve their computational problems and at present MATLAB has emerged as a powerful computational language which is preferably used for this purpose due to its built in functions and toolboxes Considering the needs and convenience of the students the author has made an attempt to write this book which explains the various concepts of MATLAB in a systematic way and makes its readers proficient in using MATLAB for computing It mainly focuses on the applications of MATLAB rather than its use in programming basic numerical algorithms Commencing with the

introduction to MATLAB the text covers vector and matrix computations solution of linear and non linear equations differentiation and integration and solution of ordinary and partial differential equations Next analytical computations using the Symbolic Math Toolbox and statistical computations using the Statistics and Machine Learning Toolbox are explained Finally the book describes various curve fitting techniques using the Curve Fitting Toolbox Inclusion of all these advanced level topics in the book stands it out from the rest KEY FEATURES Numerous worked out examples to enable the readers understand the steps involved in solving the chemical engineering problems MATLAB codes to explain the computational techniques Several snapshots to help the readers understand the step by step procedures of using the toolboxes Chapter end exercises including short answer questions and numerical problems Appendix comprising the definitions of some important and special matrices Supplemented with Solutions Manual containing complete detailed solutions to the unsolved analytical problems Accessibility of selected colour figures including screenshots and results outputs of the programs cited in the text at www.phindia.com Pallab_Ghosh TARGET AUDIENCE BE B Tech Chemical Engineering ME M Tech Chemical Engineering

Software Engineering Perspectives in Intelligent Systems Radek Silhavy,Petr Silhavy,Zdenka Prokopova,2020-12-14 This book constitutes the refereed proceedings of the 4th Computational Methods in Systems and Software 2020 CoMeSySo 2020 proceedings Software engineering computer science and artificial intelligence are crucial topics for the research within an intelligent systems problem domain The CoMeSySo 2020 conference is breaking the barriers being held online CoMeSySo 2020 intends to provide an international forum for the discussion of the latest high quality research results Introduction to MATLAB with Applications for Chemical and Mechanical Engineers Daniel G. Coronell,2015-03-26 Introduction to MATLAB with Applications for Chemical and Mechanical Engineers provides applications from chemical engineering and biotechnology such as thermodynamics heat transfer fluid mechanics and mass transfer The book features a section on input output and storage of data as well as a section on data analysis and parameter estimation that contains statistical analysis curve fitting optimization and error analysis Many applied case studies are included from the engineering disciplines It also offers instruction on the use of the MATLAB optimization toolbox With a CD ROM of MATLAB programs this text is essential for chemical engineers mechanical engineers applied mathematicians and students **Numerical Techniques for Chemical and Biological Engineers Using MATLAB®** Said S.E.H. Elnashaie, Frank Uhlig, Chadia Affane, 2007 This book addresses the bifurcation characteristics of chemical and biological processes as the general case and treats systems with a unique steady as special cases Back cover *Process Engineering* Behzad Nazari, 2018-10-15 This book prepares process engineers including chemical polymer petroleum materials in utilizing numerical methods for solving engineering scientific problems Each problem is solved using theory and followed by a solution using MATLAB Simple coding is explained and demonstrated for use in tackling engineering problems

Matlab Petroleum Engineering Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Matlab Petroleum Engineering**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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