



Rocket Engine Design

George P. Sutton, Oscar Biblarz



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Modern Engineering for Design of Liquid-Propellant Rocket Engines Dieter K. Huzel,1992

Modern Engineering for Design of Liquid-propellant Rocket Engines Dieter K. Huzel,David H. Huang,Harry Arbit,1992-01-01 From the component design to the subsystem design to the engine systems design engine development and flight vehicle application this how to text bridges the gap between basic physical and design principles and actual rocket engine design as its done in industry More than 470 illustrations and tables help to make this book a must read for advanced students and engineers active in all phases of engine systems design development and application in industry and in government agencies

Modern Engineering for Design of Liquid-propellant Rocket Engines ,1992

Design of Liquid Propellant Rocket Engines Dr Jim Ras,2016-09-20 This book intends to build a bridge for the student and the young engineer to link the rocket propulsion fundamentals and elements which are well covered in the literature with the actual rocket engine design and development work as it is carried out in industry which is very little if at all covered in literature The book attempts to further the understanding of the realistic application of liquid rocket propulsion theories and to help avoid or at least reduce time and money consuming errors and disappointments In so doing it also attempts to digest and consolidate numerous closely related subjects hitherto often treated as separate bringing them up to date at the same time

Design of Liquid Propellant Rocket Engines Dieter K. Huzel,David H. Huang,1971

Analysis of Effects of Rocket-engine Design Parameters on Regenerative-cooling Capabilities of Several Propellants Arthur N. Curren,Harold G. Price,Howard W. Douglass,1959

How to Design Space Rocket Engines Dr Noah,2018-02 This book intends to build a bridge for the student and the young engineer to link the rocket propulsion fundamentals and elements with the actual rocket engine design and development work as it is carried out in the industry The book attempts to further the understanding of the realistic application of liquid rocket propulsion theories and to help avoid or at least reduce time and money consuming errors and disappointments This book was written on the job for use by those active in all phases of engine systems design development and application in industry

Modern Engineering for Design of Liquid-Propellant Rocket Engines James R.,1969-01-02 This book intends to build a bridge for the student and the young engineer to link the rocket propulsion fundamentals and elements with the actual rocket engine design and development work as it is carried out in the industry The book attempts to further the understanding of the realistic application of liquid rocket propulsion theories and to help avoid or at least reduce time and money consuming errors and disappointments This book was written on the job for use by those active in all phases of engine systems design development and application in industry

Propellant Vaporization as a Design Criterion for Rocket-engine Combustion Chambers Richard J. Priem,Marcus F. Heidmann,1960

Technology Test Bed ,1991

Rocket Propulsion Elements George P. Sutton, Oscar Biblarz, 2011-09-09 The definitive text on rocket propulsion now revised to reflect advancements in the field For sixty years Sutton's Rocket Propulsion Elements has been regarded as the single most authoritative sourcebook on rocket propulsion technology As with the previous edition coauthored with Oscar Biblarz the Eighth Edition of Rocket Propulsion Elements offers a thorough introduction to basic principles of rocket propulsion for guided missiles space flight or satellite flight It describes the physical mechanisms and designs for various types of rockets and provides an understanding of how rocket propulsion is applied to flying vehicles Updated and strengthened throughout the Eighth Edition explores The fundamentals of rocket propulsion its essential technologies and its key design rationale The various types of rocket propulsion systems physical phenomena and essential relationships The latest advances in the field such as changes in materials systems design propellants applications and manufacturing technologies with a separate new chapter devoted to turbopumps Liquid propellant rocket engines and solid propellant rocket motors the two most prevalent of the rocket propulsion systems with in depth consideration of advances in hybrid rockets and electrical space propulsion Comprehensive and coherently organized this seminal text guides readers evenhandedly through the complex factors that shape rocket propulsion with both theory and practical design considerations Professional engineers in the aerospace and defense industries as well as students in mechanical and aerospace engineering will find this updated classic indispensable for its scope of coverage and utility

Jet, Rocket, Nuclear, Ion and Electric Propulsion W.H.T. Loh, 2012-12-06 During the last decade rapid growth of knowledge in the field of jet rocket nuclear ion and electric propulsion has resulted in many advances useful to the student engineer and scientist The purpose for offering this course is to make available to them these recent advances in theory and design Accordingly this course is organized into seven parts Part 1 Introduction Part 2 Jet Propulsion Part 3 Rocket Propulsion Part 4 Nuclear Propulsion Part 5 Electric and Ion Propulsion Part 6 Theory on Combustion Detonation and Fluid Injection Part 7 Advanced Concepts and Mission Applications It is written in such a way that it may easily be adopted by other universities as a textbook for a one semester senior or graduate course on the subject In addition to the undersigned who served as the course instructor and wrote Chapter 1 2 and 3 guest lecturers included DR G L DUGGER who wrote Chapter 4 Ram jets and Air Augmented Rockets DR GEORGE P SUTTON who wrote Chapter 5 Rockets and Cooling Methods DR MARTIN SUMMERFIELD who wrote Chapter 6 Solid Propellant Rockets DR HOWARD S SEIFERT who wrote Chapter 7 Hybrid Rockets DR CHANDLER C Ross who wrote Chapter 8 Advanced Nuclear Rocket Design MR GEORGE H McLAFFERTY who wrote Chapter 9 Gaseous Nuclear Rockets DR S G FORBES who wrote Chapter 10 Electric and Ion Propulsion DR R H BODEN who wrote Chapter 11 Ion Propulsion DR

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Liquid Rocket Thrust Chambers Vigor Yang,2004 This is the first major publication on liquid rocket combustion devices since 1960 and includes 20 chapters prepared by world renowned experts Each chapter focuses on a specific aspect of liquid propellant combustion and thrust chamber dynamics and is incorporated into the volume in a well organized cohesive manner There are contributions from nine different countriesChina France Germany Italy Japan the Netherlands Russia Sweden and the United States

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Fundamental Concepts of Liquid-Propellant Rocket Engines Alessandro de Iaco Veris,2020-09-26 This book is intended for students and engineers who design and develop liquid propellant rocket engines offering them a guide to the theory and practice alike It first presents the fundamental concepts the generation of thrust the gas flow through the combustion chamber and the nozzle the liquid propellants used and the combustion process and then qualitatively and quantitatively describes the principal components involved the combustion chamber nozzle feed systems control systems valves propellant tanks and interconnecting elements The book includes extensive data on existing engines typical values for design parameters and worked out examples of how the concepts discussed can be applied helping readers integrate them in their own work Detailed bibliographical references including books articles and items from the gray literature are provided at the end of each chapter together with information on valuable resources that can be found online Given its scope the book will be of particular interest to undergraduate and graduate students of aerospace engineering

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Structural Dynamics of Liquid Rocket Engines Andrew M. Brown, 2023-02-14 This is the first Structural Dynamics book focused on this indispensable aspect of liquid rocket engine design This book begins by reviewing basic concepts in Structural Dynamics including the free and forced response of SDOF and MDOF systems along with some discussion of how numerical solutions are generated The book then moves to a discussion of specific applications of these techniques in LREs progressing from component level turbomachinery and combustion devices up through engine system models and finally to integration with a launch vehicle Clarifies specific topics including the Campbell and SAFE Diagrams for resonance identification in turbomachinery the complications of component analysis in the pump side due to a host of complication factors such as acoustic structure interaction the side loads fluid structure interaction problem in overexpanded rocket nozzles and competing methods for generation overall engine system interface loads Includes specific examples for illustration while closing with rotordynamic analysis dynamic data analysis and vibroacoustics

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