



## The Spinoza Problem: A Novel

By Yalom, Irvin D.

Basic Books, 2012. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: List of Authors and Editors Preface Chapter 1 Introduction to Space Propulsion 1.1 Rocket Fundamentals 1.2 The Design Process Chapter 2 Mission Analysis 2.1 Keplerian Orbits 2.2 Orbit Perturbations 2.3 Orbit Maneuvering 2.4 Launch Windows 2.5 Orbit Maintenance 2.6 Earth to Orbit Chapter 3 Thermodynamics of Fluid Flow 3.1 Mass Transfer 3.2 Thermodynamic Relations (Energy and Entropy) 3.3 Thrust Equations 3.4 Heat Addition 3.5 Heat Transfer 3.6 Design Example - Cold-Gas Thruster Chapter 4 Thermochemistry 4.1 The Chemical Heat Source: Bond Energy 4.2 Thermochemistry Basics 4.3 Products of Combustion 4.4 Flame Temperature: The Available-Heat Method 4.5 Chemical Kinetics: The Speed of the Chemical Reactions 4.6 Combustion of Liquids vs. Solids 4.7 Propellant Characteristics and Their Implications 4.8 Key Thermochemical Parameters: The Bottom Line Chapter 5 Liquid Rocket Propulsion Systems 5.1 History 5.2 Design Process 5.3 Preliminary Design Decisions 5.4 System Sizing, Design, and Trade-off 5.5 Case Study Chapter 6 Solid Rocket Motors 6.1 Background 6.2 Design Process 6.3 Preliminary Sizing 6.4 Solid Rocket Propellants 6.5 Performance Prediction 6.6 Case Study Chapter 7 Hybrid Rocket Propulsion Systems 7.1 History 7.2 Hybrid-Motor Ballistics 7.3 Design Process 7.4 Preliminary Design Decisions 7.5 Performance Estimate 7.6 Preliminary Component Design 7.7 Case Study Chapter 8 Nuclear Rocket Propulsion Systems 8.1 Introduction 8.2 Design Process 8.3 Preliminary Design Decisions 8.4 Size the Reactor 8.5 Size the Radiation Shield 8.6 Evaluate Vehicle Operation 8.7 Case Study Chapter 9 Electric Rocket Propulsion Systems 9.1 History and Status 9.2 Design Process 9.3 Specify the Mission 9.4...



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