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Product Description

IUTAM SYMPOSIUM SEDONA/AZ 1999

H.F. Fasel, W.S. Saric (Eds.)

Laminar-Turbulent Transition



Laminar-Turbulent Transition: IUTAM Symposium, Sedona/AZ September 13 ? 17, 1999 (IUTAM Symposia)

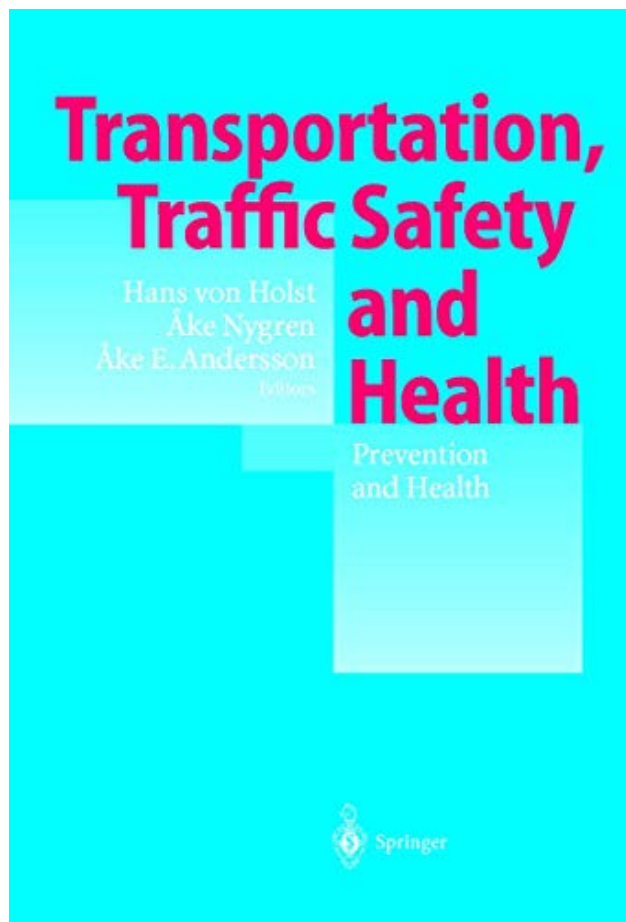
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SKU: 9783540679479

Price: \$11,549.79

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Product Description



Transportation, Traffic Safety and Health
? Prevention and Health: Third
International Conference, Washington,
U.S.A, 1997

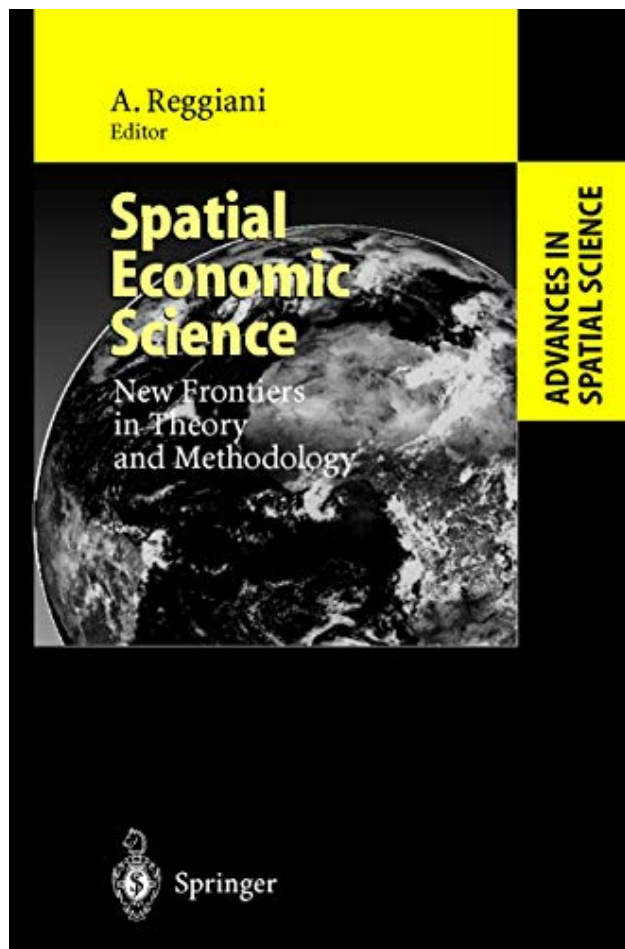
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SKU: 9783540674443

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[TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description



Spatial Economic Science: New Frontiers in Theory and Methodology (Advances in Spatial Science)

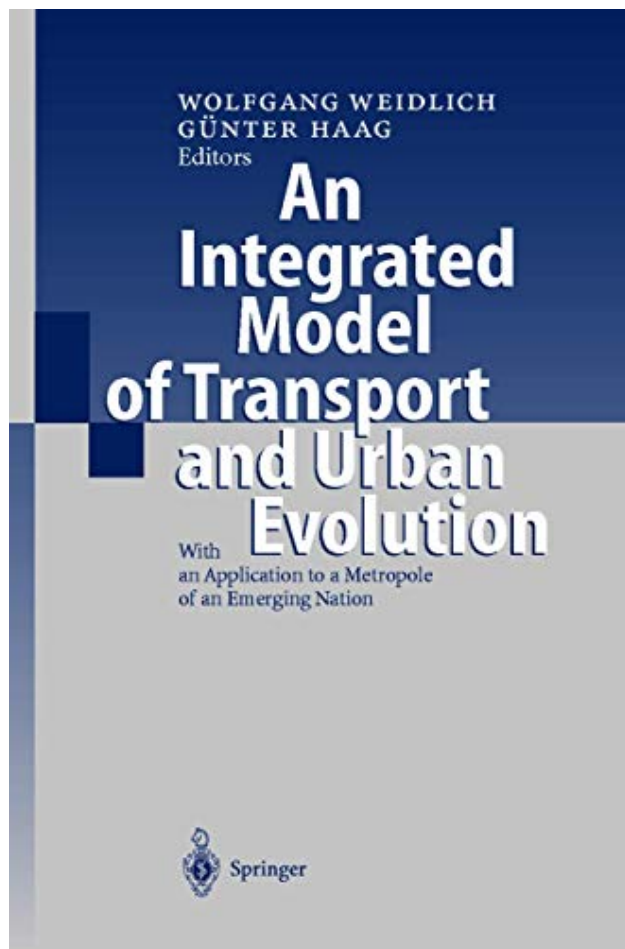
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Price: \$2,079.00

Categories: [AUTOMOTIVE TECHNOLOGY](#), [COLLEGES OF HIGHER EDUCATION](#), [EDUCATION](#), [EDUCATION](#), [HIGHER & FURTHER EDUCATION](#), [MECHANICAL ENGINEERING](#), [MECHANICAL ENGINEERING & MATERIALS](#), [MECHANICAL ENGINEERING & MATERIALS](#), [REGIONAL & AREA PLANNING](#), [REGIONAL & AREA PLANNING](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [URBAN & MUNICIPAL PLANNING](#), [URBAN RENEWAL & REGENERATION](#)

Product Description



An Integrated Model of Transport and Urban Evolution: With an Application to a Metropole of an Emerging Nation

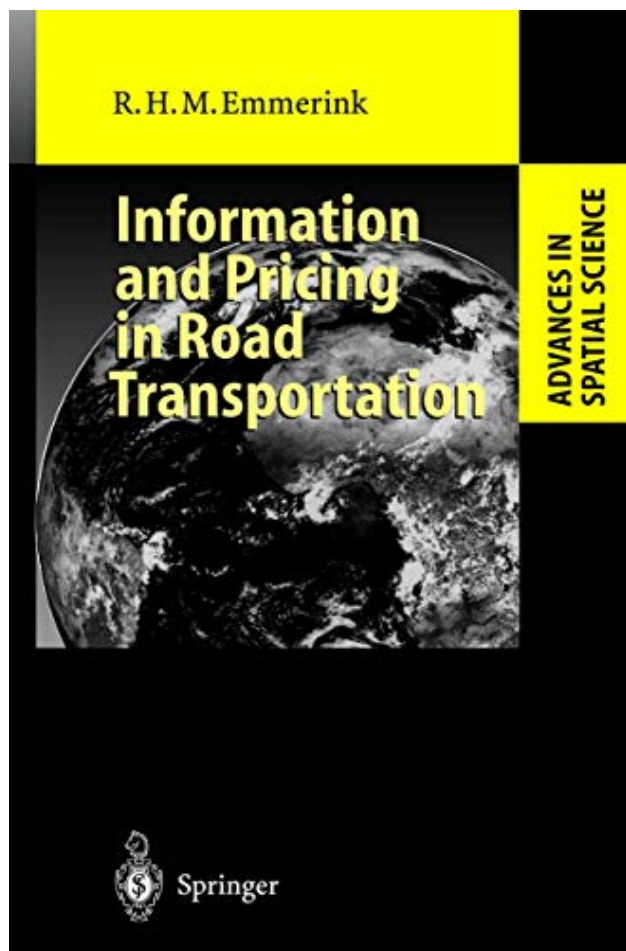
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Categories: [AUTOMOTIVE \(MOTOR MECHANIC\) SKILLS](#), [AUTOMOTIVE TECHNOLOGY](#), [AUTOMOTIVE TECHNOLOGY](#), [MATHEMATICS](#), [MATHEMATICS](#), [MECHANICAL ENGINEERING & MATERIALS](#), [PROBABILITY & STATISTICS](#), [REGIONAL & AREA PLANNING](#), [REGIONAL & AREA PLANNING](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [URBAN & MUNICIPAL PLANNING](#), [URBAN RENEWAL & REGENERATION](#)

Product Description



Information and Pricing in Road Transportation (Advances in Spatial Science)

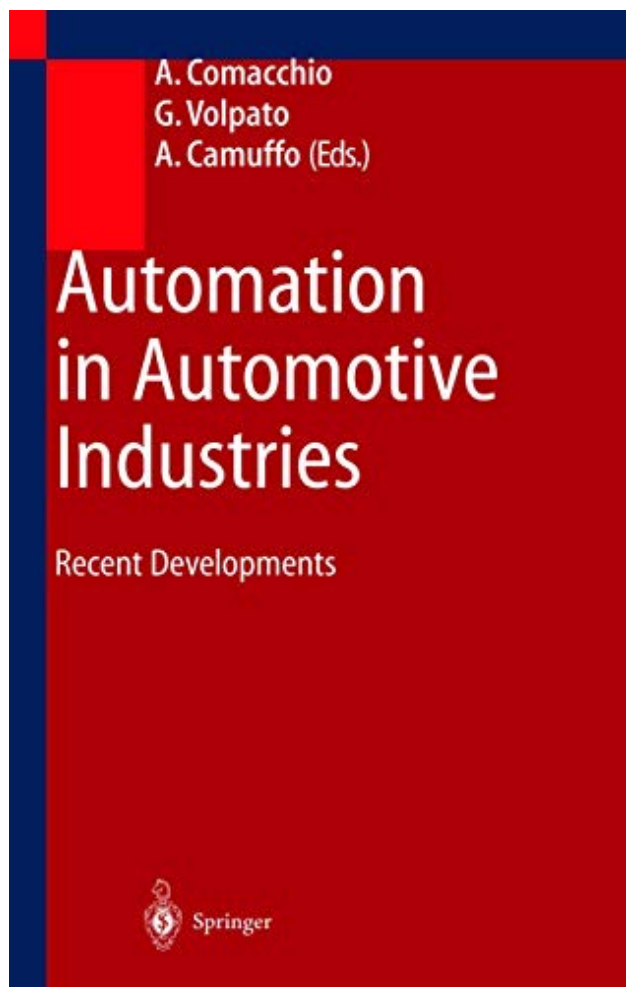
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SKU: 9783540640882

Price: \$2,079.00

Categories: [AUTOMOTIVE \(MOTOR MECHANIC\) SKILLS](#), [AUTOMOTIVE TECHNOLOGY](#), [AUTOMOTIVE TECHNOLOGY](#), [MECHANICAL ENGINEERING](#), [MECHANICAL ENGINEERING & MATERIALS](#), [MECHANICAL ENGINEERING & MATERIALS](#), [REGIONAL & AREA PLANNING](#), [REGIONAL & AREA PLANNING](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [URBAN & MUNICIPAL PLANNING](#), [URBAN RENEWAL & REGENERATION](#)

Product Description



Automation in Automotive Industries: Recent Developments

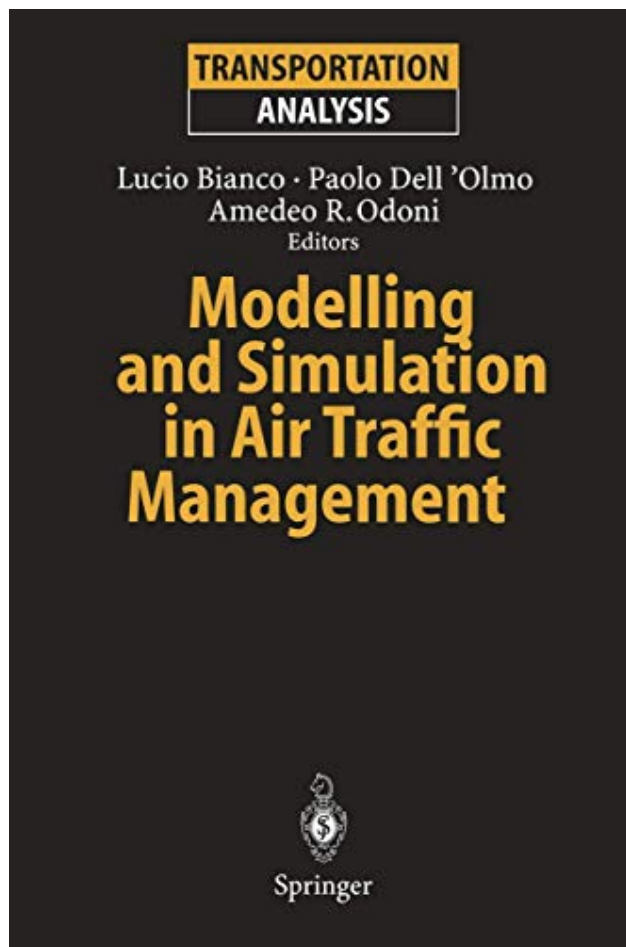
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SKU: 9783540640189

Price: \$2,079.00

Categories: [AUTOMOTIVE TECHNOLOGY](#), [BUSINESS & MANAGEMENT](#), [BUSINESS & MANAGEMENT, MANAGEMENT OF SPECIFIC AREAS](#), [MECHANICAL ENGINEERING](#), [MECHANICAL ENGINEERING & MATERIALS](#), [MECHANICAL ENGINEERING & MATERIALS, PRODUCTION & QUALITY CONTROL MANAGEMENT](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description



Modelling and Simulation in Air Traffic Management (Transportation Analysis)

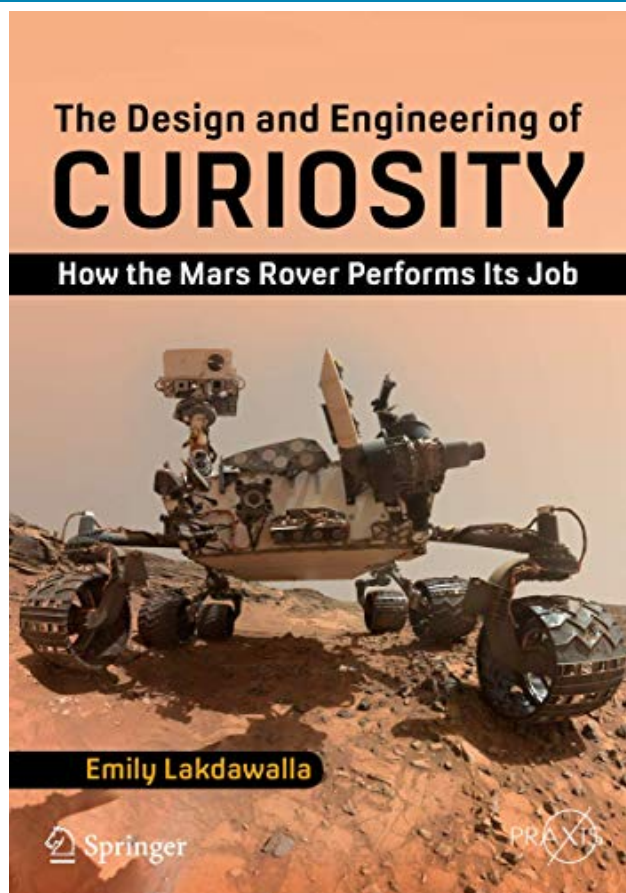
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SKU: 9783540630937

Price: \$2,079.00

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [AVIATION SKILLS / PILOTING](#), [BUSINESS & MANAGEMENT](#), [ECONOMICS](#), [ECONOMICS](#), [ECONOMICS](#), [FINANCE](#), [BUSINESS AND INDUSTRY](#), [ELECTRONICS & COMMUNICATIONS ENGINEERING](#), [ELECTRONICS & COMMUNICATIONS ENGINEERING](#), [Operational research](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description



The Design and Engineering of Curiosity: How the Mars Rover Performs Its Job (Springer Praxis Books)

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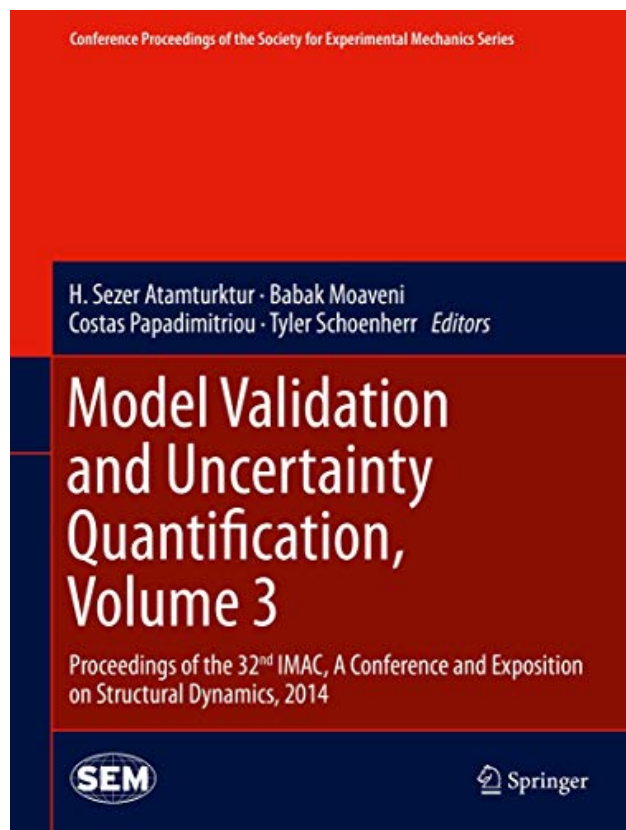
SKU: 9783319681443

Price: \$839.79

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [ASTRONAUTICS](#), [OTHER TECHNOLOGIES](#), [OTHER TECHNOLOGIES](#), [SPACE SCIENCE](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description

This book describes the most complex machine ever sent to another planet: Curiosity. It is a one-ton robot with two brains, seventeen cameras, six wheels, nuclear power, and a laser beam on its head. No one human understands how all of its systems and instruments work. This essential reference to the Curiosity mission explains the engineering behind every system on the rover, from its rocket-powered jetpack to its radioisotope thermoelectric generator to its fiendishly complex sample handling system. Its lavishly illustrated text explains how all the instruments work -- its cameras, spectrometers, sample-cooking oven, and weather station -- and describes the instruments' abilities and limitations. It tells you how the systems have functioned on Mars, and how scientists and engineers have worked around problems developed on a faraway planet: holey wheels and broken focus lasers. And it explains the grueling mission operations schedule that keeps the rover working day in and day out.



Model Validation and Uncertainty Quantification, Volume 3: Proceedings of the 32nd IMAC, A Conference and Exposition on Structural Dynamics, 2014 ... Society for Experimental Mechanics Series)

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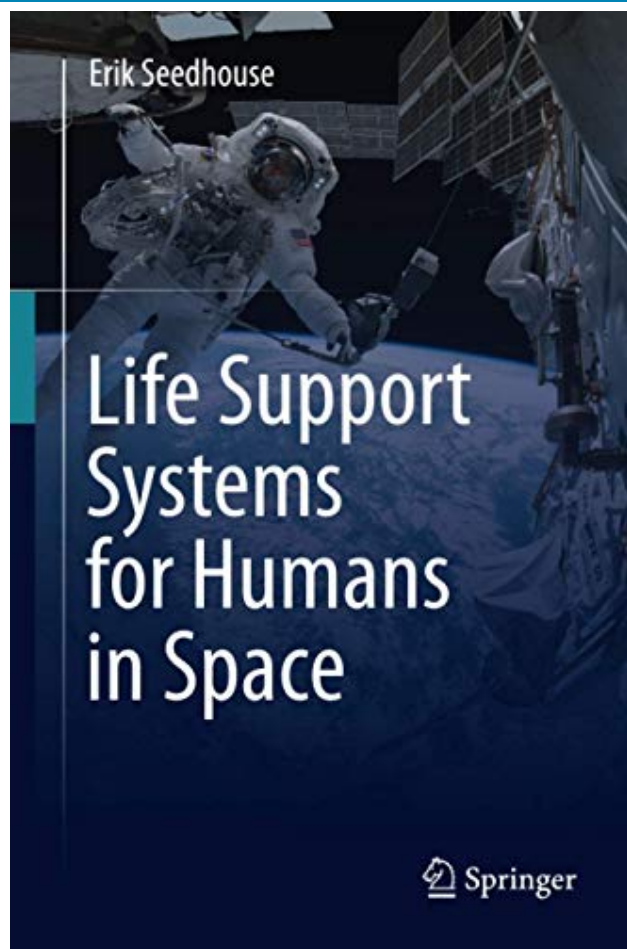
SKU: 9783319045511

Price: \$6,299.79

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [MECHANICAL ENGINEERING](#), [MECHANICAL ENGINEERING & MATERIALS](#), [MECHANICAL ENGINEERING & MATERIALS](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description

This third volume of eight from the IMAC - XXXII Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics, including papers on: Linear Systems Substructure Modelling Adaptive Structures Experimental Techniques Analytical Methods Damage Detection Damping of Materials & Members Modal Parameter Identification Modal Testing Methods System Identification Active Control Modal Parameter Estimation Processing Modal Data



Life Support Systems for Humans in Space

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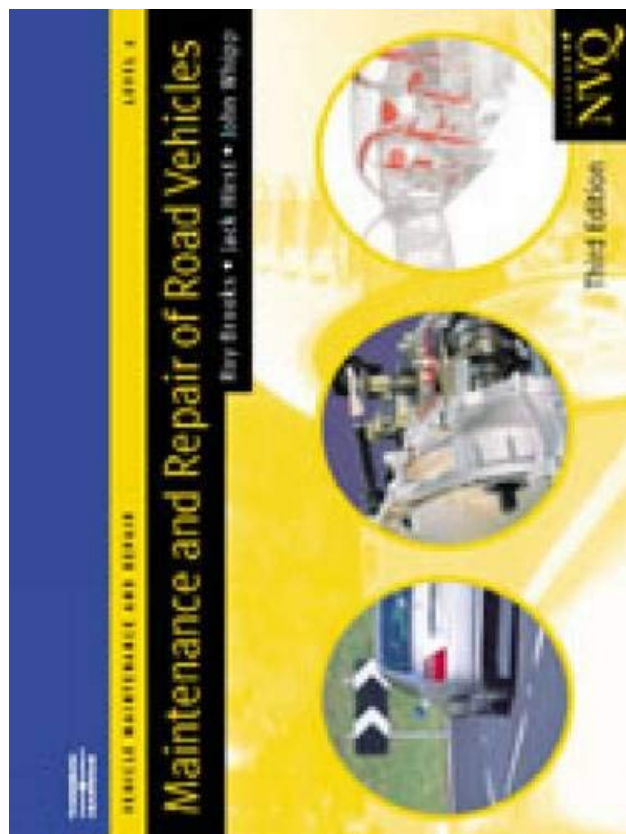
SKU: 9783030528584

Price: \$1,259.79

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [ASTRONAUTICS](#), [MEDICAL SCIENCE](#), [OTHER TECHNOLOGIES](#), [OTHER TECHNOLOGIES](#), [PHYSIOLOGY](#), [PRE-CLINICAL MEDICINE: BASIC SCIENCES](#), [SPACE SCIENCE](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description

Life support systems are an integral part of crewed spacecraft designs and habitation systems. This textbook introduces the LSS capabilities that sustain humans who live and work in space, and it is written at a level appropriate for both undergraduate and postgraduate students. The book begins with the basics of space physiology before detailing the features that make up different kinds of life support systems. It includes concise descriptions of how atmospheric pressure is monitored, how oxygen levels are maintained, how waste management is achieved and how water is recycled, and also describes the processes of fire detection and suppression. Several chapters are devoted to chronicling the evolution of life support systems through the decades. Each chapter includes a list of learning objectives, summary sections and review questions. Additionally, various analogs for spaceflight life support systems are examined, including nuclear submarines and our natural life support system here on Earth! Overall, this book serves as an approachable primer for any student seeking to understand the intricacies of spacecraft life support systems.



Maintenance and Repair of Road Vehicles Level 2: Vehicle Maintenance and Repair Series

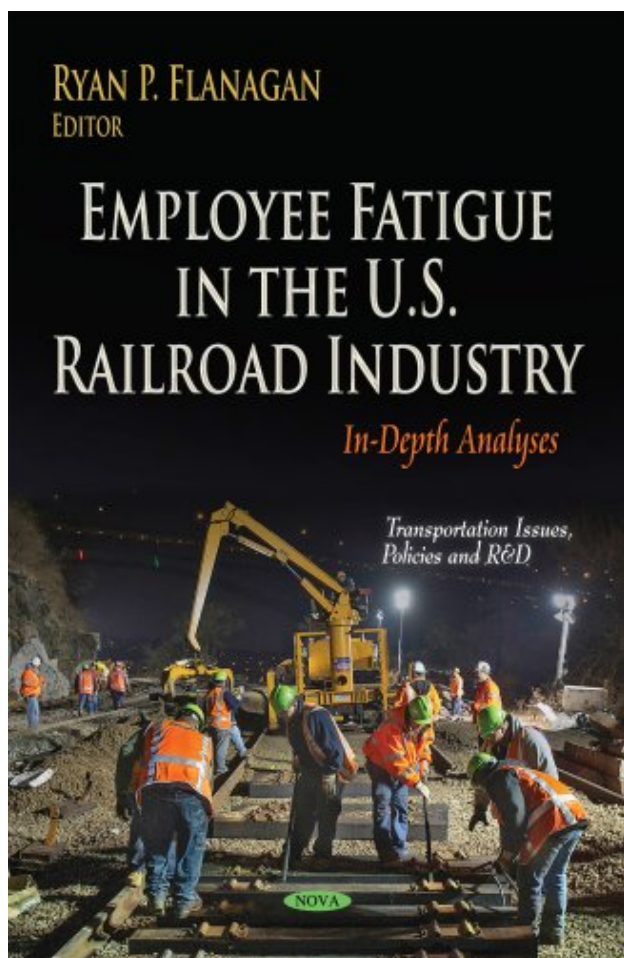
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SKU: 9781861528070

Price: \$712.95

Categories: [AUTOMOTIVE TECHNOLOGY](#), [COLLEGES OF HIGHER EDUCATION](#), [EDUCATION](#), [EDUCATION](#), [HIGHER & FURTHER EDUCATION](#), [MECHANICAL ENGINEERING](#), [MECHANICAL ENGINEERING & MATERIALS](#), [MECHANICAL ENGINEERING & MATERIALS](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [VEHICLE MAINTENANCE & REPAIR](#), [ROADCRAFT](#), [VOCATIONAL SUBJECTS & SKILLS](#)

Product Description



Employee Fatigue in the U.S. Railroad Industry: In-Depth Analyses (Transportation Issues, Policies and R&d)

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SKU: 9781631177873

Price: \$4,620.00

Categories: [RAILWAY TECHNOLOGY & ENGINEERING](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description

How fatigued are safety-critical railroad employees such as Train and Engine (T&E) workers, passenger T&E workers, signalmen, Maintenance of Way (MOW) workers and dispatchers, and how does their level of fatigue affect the safety of railroad operations? Are statutory or regulatory limitations on hours of work sufficient to prevent worker fatigue? Fatigue is largely a function of sleep and circadian rhythms. Sleep, in turn, is a function of work schedules. Work duration, the time of day (TOD) of work, and schedule variability are aspects of work schedules that determine when sleep can occur. Fatigue exposure is determined largely by work schedules, and fatigue exposure determines fatigue risk and the probability of human factor accidents. This book draws on the results of several prior studies, all conducted with similar methodology, to characterise the prevalence of employee fatigue in the U.S. railroad industry. Data from logbook surveys of signalmen, maintenance of way workers, dispatchers, and train and engine service employees were combined to examine the relationship between work schedules and sleep patterns.



Airline Transport Pilot Test Prep 2021: Study & Prepare: Pass your test and know what is essential to become a safe, competent pilot from the most ... in aviation training (ASA Test Prep Series)

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SKU: 9781619549739

Price: \$1,048.95

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [AIRCRAFT: GENERAL INTEREST](#), [AVIATION SKILLS / PILOTING](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT: GENERAL INTEREST](#)

Product Description



Powerplant Test Guide 2021: Pass your test and know what is essential to become a safe, competent AMT from the most trusted source in aviation training (ASA Fast-Track Test Guides)

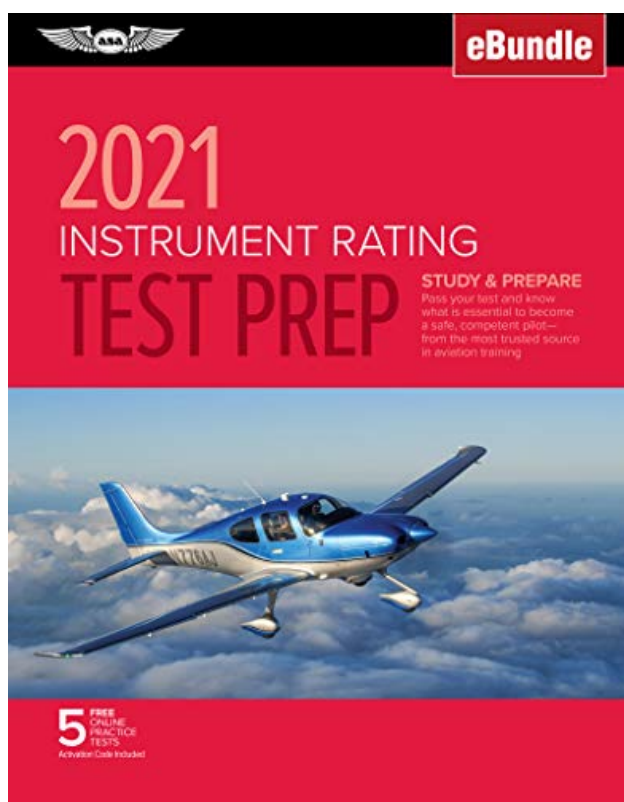
[Read More](#)

SKU: 9781619549814

Price: \$313.95

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [AIRCRAFT: GENERAL INTEREST](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT: GENERAL INTEREST](#)

Product Description



Instrument Rating Test Prep 2021: Study & Prepare: Pass your test and know what is essential to become a safe, competent pilot from the most trusted ... training (eBundle) (ASA Test Prep Series)

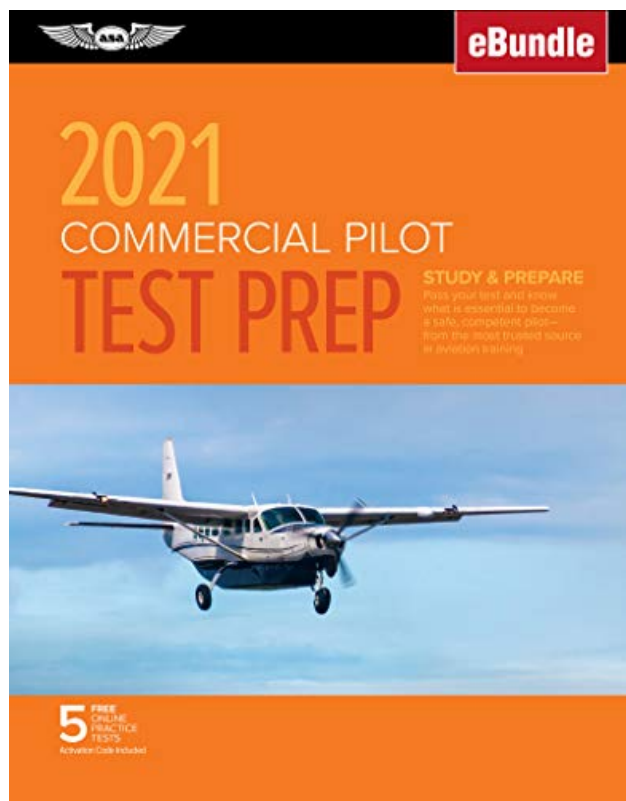
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SKU: 9781619549852

Price: \$1,258.95

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [AIRCRAFT: GENERAL INTEREST](#), [AVIATION SKILLS / PILOTING](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT: GENERAL INTEREST](#)

Product Description



Commercial Pilot Test Prep 2021: Study & Prepare: Pass your test and know what is essential to become a safe, competent pilot from the most trusted ... training (eBundle) (ASA Test Prep Series)

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SKU: 9781619549869

Price: \$1,153.95

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [AIRCRAFT: GENERAL INTEREST](#), [AVIATION SKILLS / PILOTING](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT: GENERAL INTEREST](#)

Product Description



General Test Guide 2021: Pass your test and know what is essential to become a safe, competent AMT from the most trusted source in aviation training (eBundle) (ASA Fast-Track Test Guides)

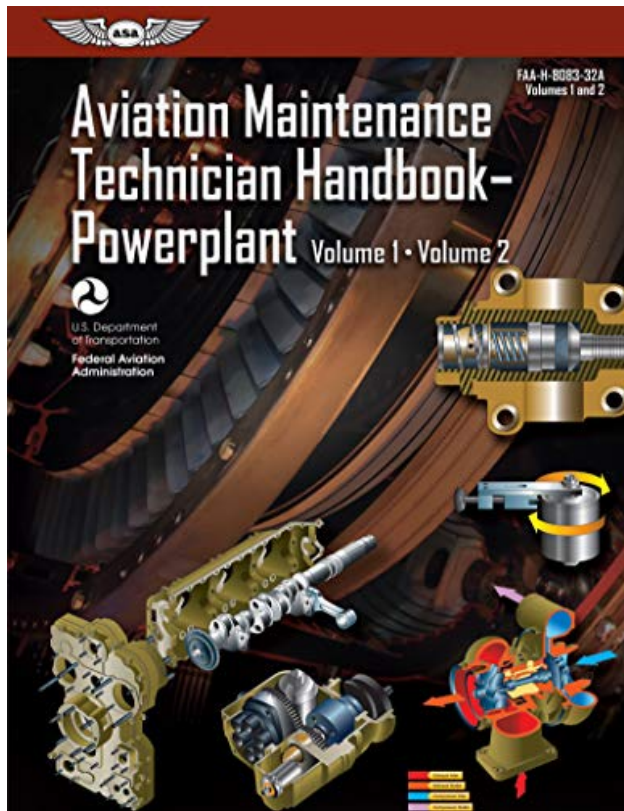
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SKU: 9781619549890

Price: \$838.95

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [AIRCRAFT: GENERAL INTEREST](#), [AVIATION SKILLS / PILOTING](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT: GENERAL INTEREST](#)

Product Description



Aviation Maintenance Technician Handbook: Powerplant: FAA-H-8083-32A (ASA FAA Handbook Series)

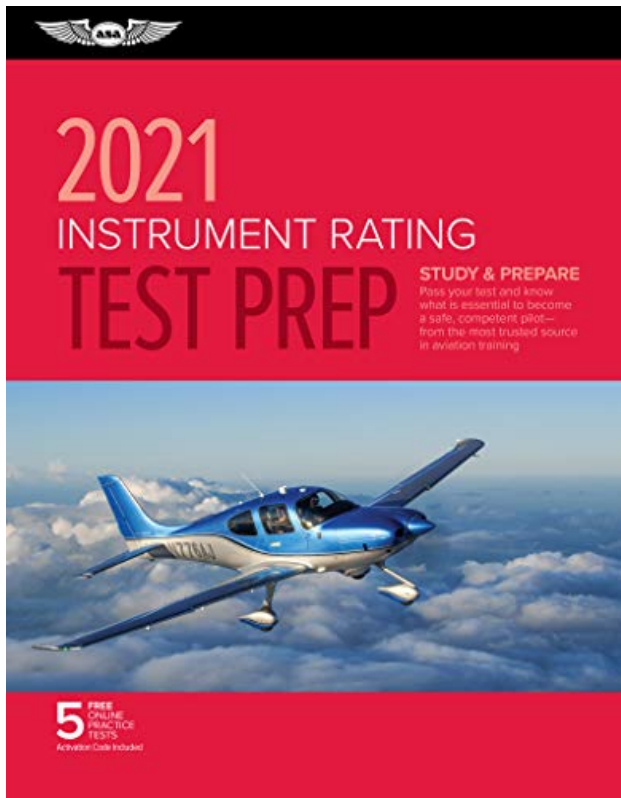
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SKU: 9781619548367

Price: \$733.95

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description



Instrument Rating Test Prep 2021: Study & Prepare: Pass your test and know what is essential to become a safe, competent pilot from the most trusted source in aviation training (ASA Test Prep Series)

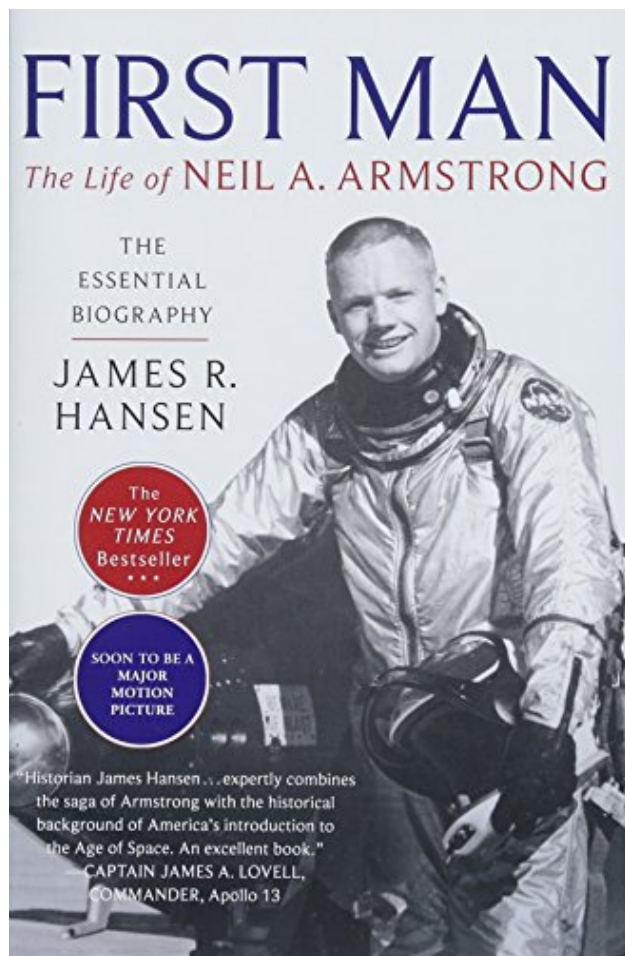
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SKU: 9781619549678

Price: \$628.95

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [AIRCRAFT: GENERAL INTEREST](#), [AVIATION SKILLS / PILOTING](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT: GENERAL INTEREST](#)

Product Description



First Man: The Life of Neil A. Armstrong

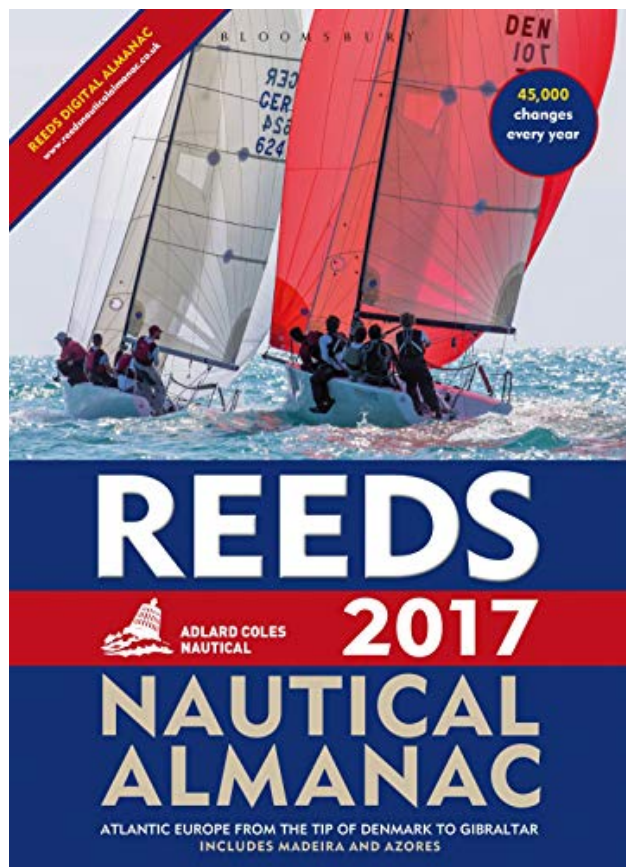
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SKU: 9781501153068

Price: \$378.00

Categories: [20th century history: c 1900 to c 2000](#), [AEROSPACE & AVIATION TECHNOLOGY](#), [BIOGRAPHY: GENERAL](#), [Biography: science, technology & medicine](#), [General & world history](#), [HISTORY](#), [HISTORY OF ENGINEERING & TECHNOLOGY](#), [History: earliest times to present day](#), [LANGUAGE, LITERATURE AND BIOGRAPHY](#), [TECHNOLOGY: GENERAL ISSUES](#), [TECHNOLOGY: GENERAL ISSUES](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description



Reeds Nautical Almanac 2017 (Reed's Almanac)

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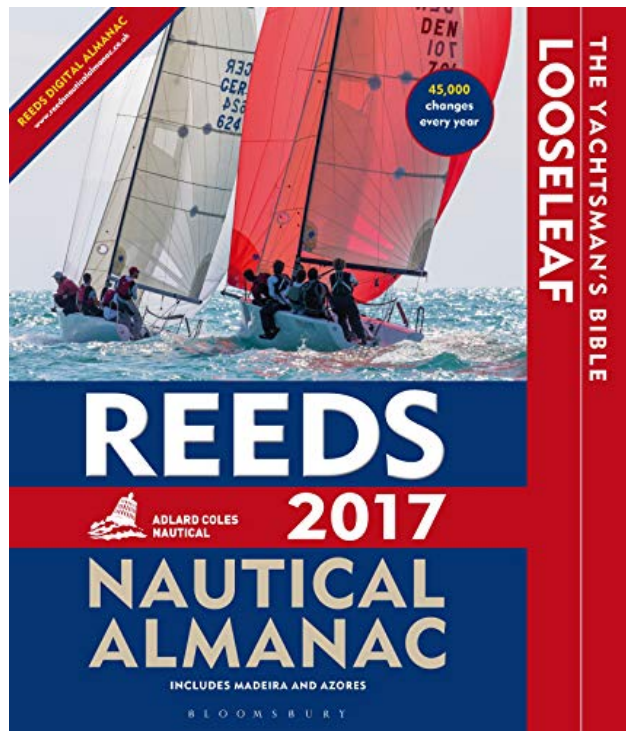
SKU: 9781472930460

Price: \$1,785.00

Categories: [BOATING](#), [ENCYCLOPAEDIAS & REFERENCE WORKS](#), [REFERENCE AND INFORMATION](#), [REFERENCE WORKS](#), [SHIPBUILDING TECHNOLOGY & ENGINEERING](#), [SPORT, TRAVEL AND LEISURE INTERESTS](#), [SPORTS & OUTDOOR RECREATION](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [WATER SPORTS & RECREATIONS](#)

Product Description

Reeds Nautical Almanac is the indispensable trusted annual compendium of navigational data for yachtsmen and motorboaters, and provides all the information required to navigate Atlantic coastal waters around the whole of the UK, Ireland, Channel Islands and the entire European coastline from the tip of Denmark right down to Gibraltar, Northern Morocco, the Azores and Madeira. The 2017 edition continues the Almanac's tradition of year on year improvement and meticulous presentation of all the data required for safe navigation. Now with an improved layout for easier reference and with over 45,000 annual changes, it is regarded as the bible of almanacs for anyone going to sea. The 2017 edition is updated throughout, containing over 45,000 changes, and includes: 700 harbour chartlets; tide tables and tidal streams; buoyage and lights; 7,500 waypoints; invaluable passage notes; distance tables; radio, weather and safety information; first aid section. Also: a free Marina Guide. Also available: free supplements of up-to-date navigation changes from January to June at: www.reedsnauticalalmanac.co.uk The digital version (available at a special discount for buyers of the print edition) includes the bonus of: live weather from the Met Office for up to 72 hours ahead, a helpful quick-access route planner, a printing facility and much more.



Reeds Looseleaf Almanac 2017 (Reed's Almanac)

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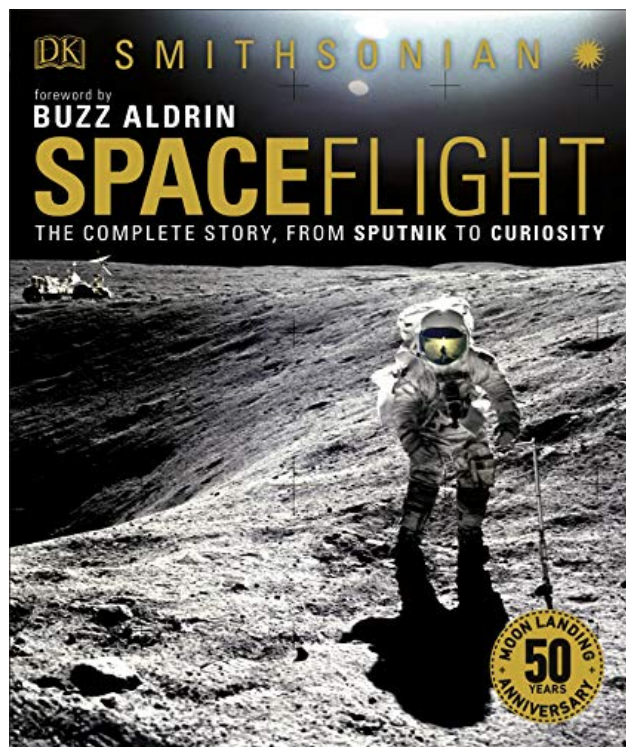
SKU: 9781472930491

Price: \$1,995.00

Categories: [BOATING](#), [ENCYCLOPAEDIAS & REFERENCE WORKS](#), [NAVIGATION](#), [REFERENCE AND INFORMATION](#), [REFERENCE WORKS](#), [SHIPBUILDING TECHNOLOGY & ENGINEERING](#), [SPORT, TRAVEL AND LEISURE INTERESTS](#), [SPORTS & OUTDOOR RECREATION](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [WATER SPORTS & RECREATIONS](#)

Product Description

The Reeds Looseleaf Almanac provides all the information required to navigate Atlantic coastal waters around the UK, Ireland, Channel Islands, and the entire European coastline from the tip of Denmark right down to Gibraltar, including the Azores and Madeira. This is a versatile system that combines almanac and pilotage information in a convenient looseleaf form. The unique looseleaf format, bound inside a durable binder which stays open on the chart table, lets the user tailor the Almanac to their needs by complementing the contents supplied with whatever information they may want to add or take out. The looseleaf format makes information access quick and easy whilst allowing the navigator to refresh it with the annual update pack. Includes 700 harbour chartlets, Harbour facilities, Tide tables and streams, 7,500 waypoints, International codes and flags, Weather, Distance tables, Passage advice, Area planning charts, Rules of the road, Radio information, Communications, Safety, Mayday and distress procedures, and Documentation and Customs. The 2017 edition is updated throughout, containing over 45,000 changes, and includes a free Reeds Marina Guide. Also available: free supplements of up-to-date navigation changes from January to June at: www.reedsnauticalalmanac.co.uk There are some things I would not go to sea without - Reeds is one of them Sir Chay Blyth The big, bold, extravagantly comprehensive king of Almanacs Yachting World On every cruising boat you'll find one of these. Don't start your engines without it Motor Boat and Yachting The bible of almanacs Classic Boat



Spaceflight, 2nd Edition: The Complete Story from Sputnik to Curiosity

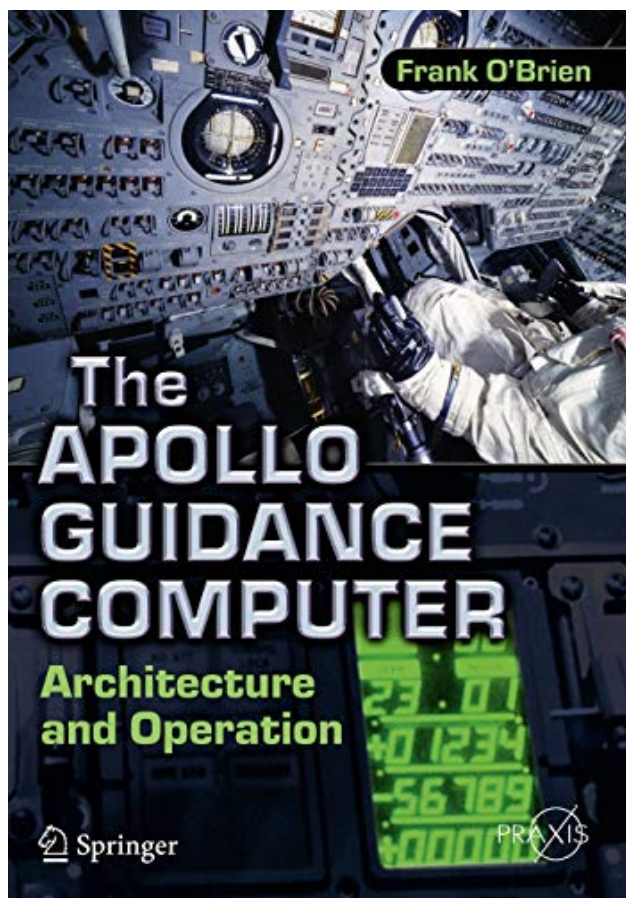
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SKU: 9781465479655

Price: \$840.00

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [ASTRONOMY, SPACE & TIME](#), [OTHER TECHNOLOGIES](#), [SPACE SCIENCE](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description



The Apollo Guidance Computer: Architecture and Operation (Springer Praxis Books)

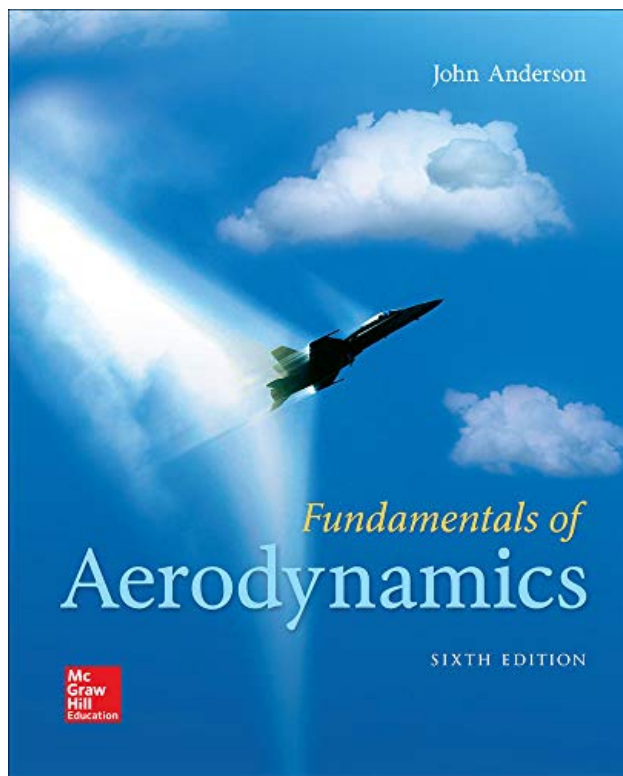
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SKU: 9781441908766

Price: \$1,049.79

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [APPLIED PHYSICS & SPECIAL TOPICS](#), [AVIATION SKILLS / PILOTING](#), [ENVIRONMENTAL SCIENCE](#), [HISTORY](#), [HISTORY](#), [PHYSICS](#), [PHYSICS](#), [THE ENVIRONMENT](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description



Fundamentals of Aerodynamics

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SKU: 9781259129919

Price: \$4,808.16

Categories: [AERODYNAMICS](#), [AEROSPACE & AVIATION TECHNOLOGY](#), [APPLIED PHYSICS & SPECIAL TOPICS](#), [MATERIALS SCIENCE](#), [MECHANICAL ENGINEERING & MATERIALS](#), [MECHANICAL ENGINEERING & MATERIALS](#), [PHYSICS](#), [PHYSICS](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description

Fundamentals of Aerodynamics is meant to be read. The writing style is intentionally conversational in order to make the book easier to read. The book is designed to talk to the reader; in part to be a self-teaching instrument. Learning objectives have been added to each chapter to reflect what is believed to be the most important items to learn from that particular chapter. This edition emphasizes the rich theoretical and physical background of aerodynamics, and marbles in many historical notes to provide a background as to where the aerodynamic technology comes from. Also, new with this edition, are Integrated Work Challenges that pertain to the chapter as a whole, and give the reader the opportunity to integrate the material in that chapter, in order to solve a bigger picture . McGraw-Hill's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers an may also have a multi-step solution which helps move the students' learning along if they experience difficulty.



The Burning Blue: The Untold Story of Christa McAuliffe and NASA's Challenger Disaster

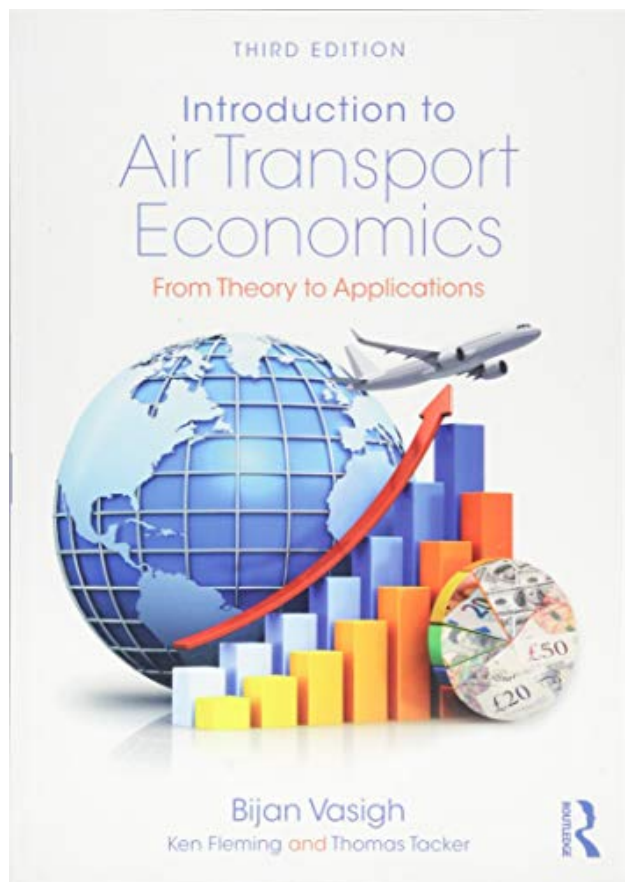
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SKU: 9781250755551

Price: \$587.79

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [BIOGRAPHY: GENERAL](#), [FAMILY & HEALTH](#), [FAMILY](#), [HOME AND PRACTICAL INTERESTS](#), [General & world history](#), [GEOGRAPHICAL DISCOVERY & EXPLORATION](#), [GEOGRAPHY](#), [GEOGRAPHY](#), [Historical geography](#), [HISTORY](#), [History: specific events & topics](#), [LANGUAGE](#), [LITERATURE AND BIOGRAPHY](#), [SAFETY IN THE HOME](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description



Introduction to Air Transport Economics: From Theory to Applications

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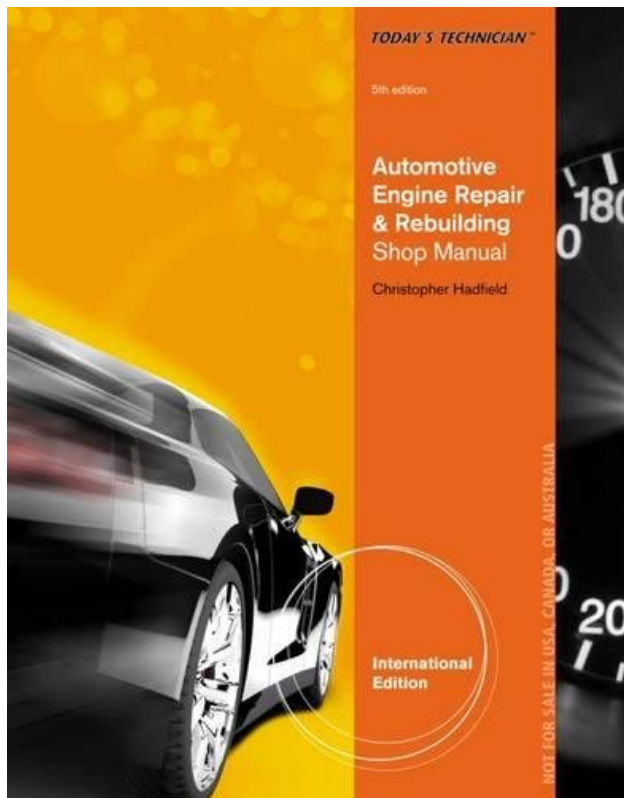
SKU: 9781138237759

Price: \$1,573.95

Categories: [AEROSPACE & AIR TRANSPORT INDUSTRIES](#), [AEROSPACE & AVIATION TECHNOLOGY](#), [INDUSTRY & INDUSTRIAL STUDIES](#), [INDUSTRY & INDUSTRIAL STUDIES](#), [TRANSPORT INDUSTRIES](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description

Introduction to Air Transport Economics: From Theory to Applications uniquely merges the institutional and technical aspects of the aviation industry with their theoretical economic underpinnings. Its integrative approach offers a fresh point of view that will find favor with many students of aviation. This third edition has been extensively updated throughout. It features new material that stresses the dynamic aspects of demand and supply and the ongoing competitive aspects of the marketplace. It now features an introductory chapter, and specific examples, to more directly relate management decisions to the economic theory. Also, in addition to an expanded coverage of revenue management and pricing decisions, the third edition includes case studies that give real-world examples to reflect actual industry practice as well as a discussion of the more up-to-date computer applications that make the new techniques so effective. This book offers a self-contained theory and applications-oriented text for any individual intent on entering the aviation industry as a practicing professional in the management area. It will be of greatest relevance to undergraduate and graduate students interested in obtaining a more complete understanding of the economics of the aviation industry. It will also appeal to many professionals who seek an accessible and practical explanation of the underlying economic forces that shape the industry.



Today's Technician. Automotive Engine Repair & Rebuilding

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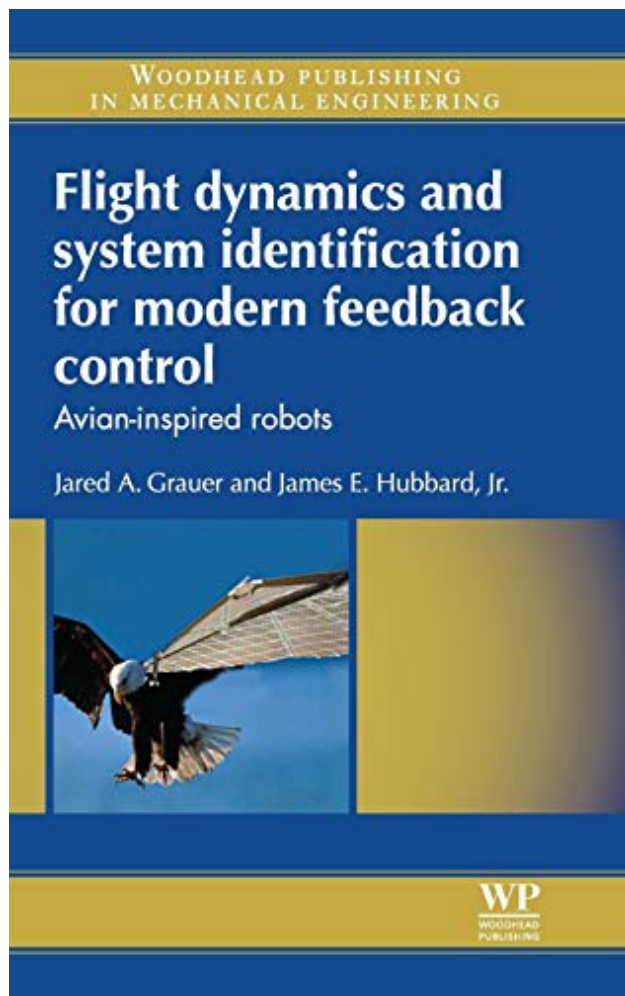
SKU: 9781133602569

Price: \$2,429.91

Categories: [AUTOMOTIVE TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description

TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE REPAIR & REBUILDING, International Edition delivers the theoretical and practical knowledge you need to repair and service modern automotive engines and prepare for the Automotive Service Excellence (ASE) certification exam. Designed around National Automotive Technicians Education Foundation (NATEF) standards, this system-specific text addresses engine construction, engine operation, intake and exhaust systems, and engine repair, as well as the basics in engine rebuilding. Move your career forward with discussions about advancements in hybrid technology, factors affecting engine performance, and the designs and functions of modern component parts. Long known for its technical accuracy and concise writing style, TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE REPAIR & REBUILDING, International Edition revs up your reading experience with realistic line drawings, detailed photos, critical thinking questions, and much more!



Flight Dynamics and System Identification for Modern Feedback Control: Avian-Inspired Robots (Woodhead Publishing in Mechanical Engineering)

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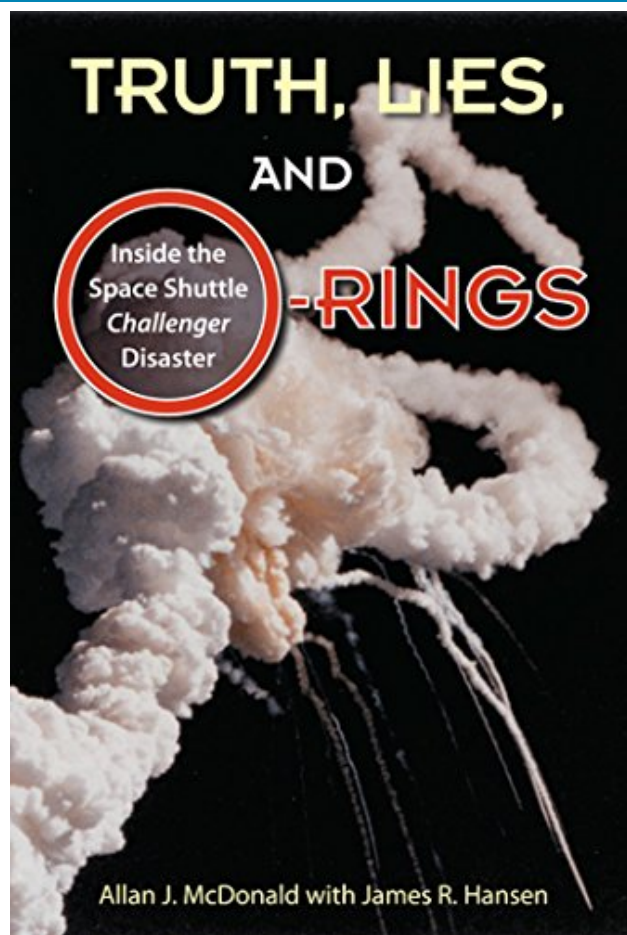
SKU: 9780857094667

Price: \$4,200.00

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [INTELLIGENT & AUTOMATED TRANSPORT SYSTEM TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description

Unmanned air vehicles are becoming increasingly popular alternatives for private applications which include, but are not limited to, fire fighting, search and rescue, atmospheric data collection, and crop surveys, to name a few. Among these vehicles are avian-inspired, flapping-wing designs, which are safe to operate near humans and are required to carry payloads while achieving manoeuvrability and agility in low speed flight. Conventional methods and tools fall short of achieving the desired performance metrics and requirements of such craft. Flight dynamics and system identification for modern feedback control provides an in-depth study of the difficulties associated with achieving controlled performance in flapping-wing, avian-inspired flight, and a new model paradigm is derived using analytical and experimental methods, with which a controls designer may then apply familiar tools. This title consists of eight chapters and covers flapping-wing aircraft and flight dynamics, before looking at nonlinear, multibody modelling as well as flight testing and instrumentation. Later chapters examine system identification from flight test data, feedback control and linearization.



Truth, Lies, and O-Rings: Inside the Space Shuttle Challenger Disaster

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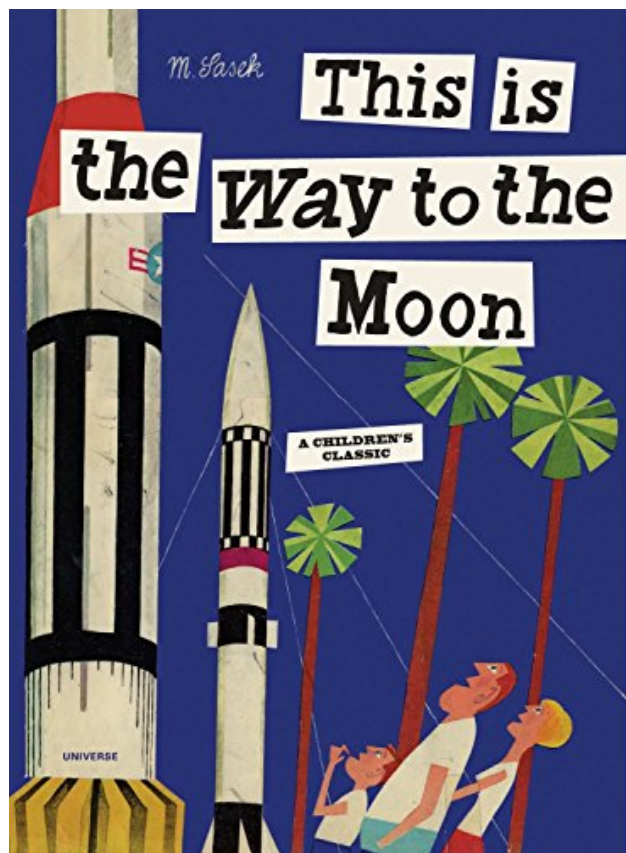
SKU: 9780813066035

Price: \$1,050.00

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Product Description

On a cold January morning in 1986, NASA launched the Space Shuttle Challenger, despite warnings against doing so by many individuals, including Allan McDonald. The fiery destruction of Challenger on live television moments after launch remains an indelible image in the nation's collective memory. In Truth, Lies, and O-Rings, McDonald, a skilled engineer and executive, relives the tragedy from where he stood at Launch Control Center. As he fought to draw attention to the real reasons behind the disaster, he was the only one targeted for retribution by both NASA and his employer, Morton Thiokol, Inc., makers of the shuttle's solid rocket boosters. In this whistle-blowing yet rigorous and fair-minded book, McDonald, with the assistance of internationally distinguished aerospace historian James R. Hansen, addresses all of the factors that led to the accident, some of which were never included in NASA's Failure Team report submitted to the Presidential Commission. Truth, Lies, and O-Rings is the first look at the Challenger tragedy and its aftermath from someone who was on the inside, recognized the potential disaster, and tried to prevent it. It also addresses the early warnings of very severe debris issues from the first two post-Challenger flights, which ultimately resulted in the loss of Columbia some fifteen years later.



This is the Way to the Moon: A Children's Classic

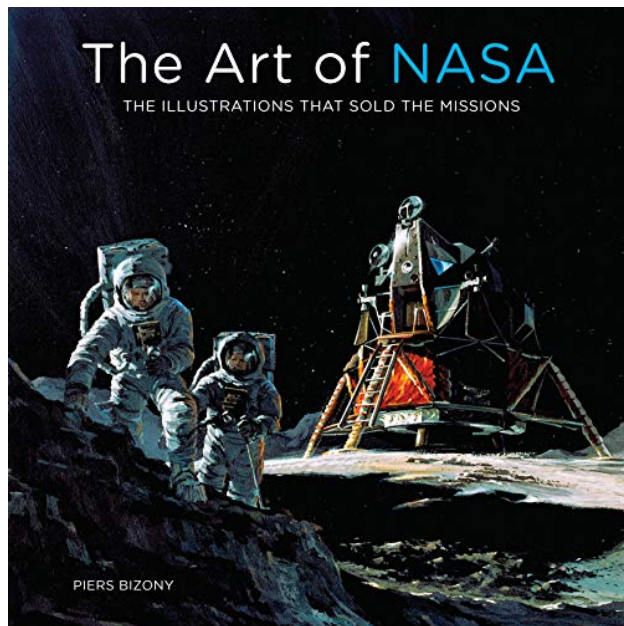
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Product Description



The Art of NASA: The Illustrations That Sold the Missions

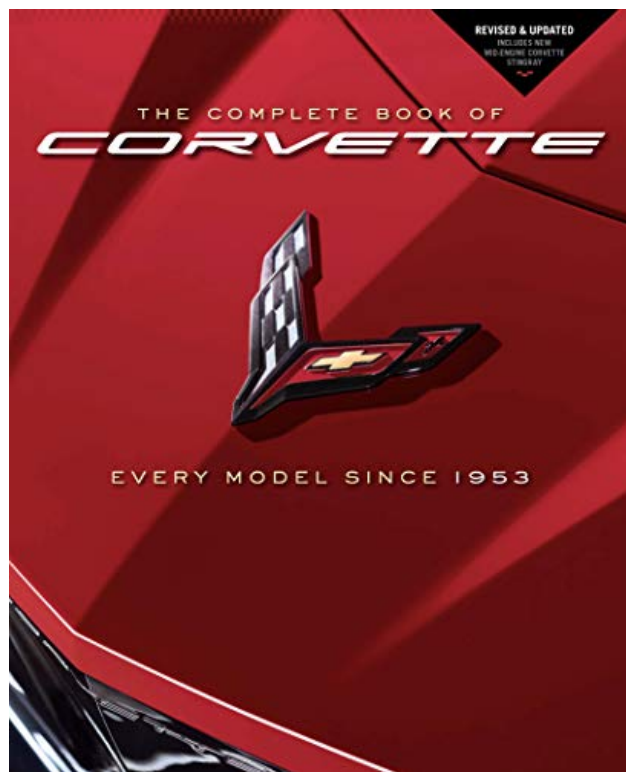
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SKU: 9780760368077

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Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [ASTRONAUTICS](#), [OTHER TECHNOLOGIES](#), [OTHER TECHNOLOGIES](#), [POPULAR SCIENCE](#), [POPULAR SCIENCE](#), [SCIENCE: GENERAL ISSUES](#), [SPACE SCIENCE](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description



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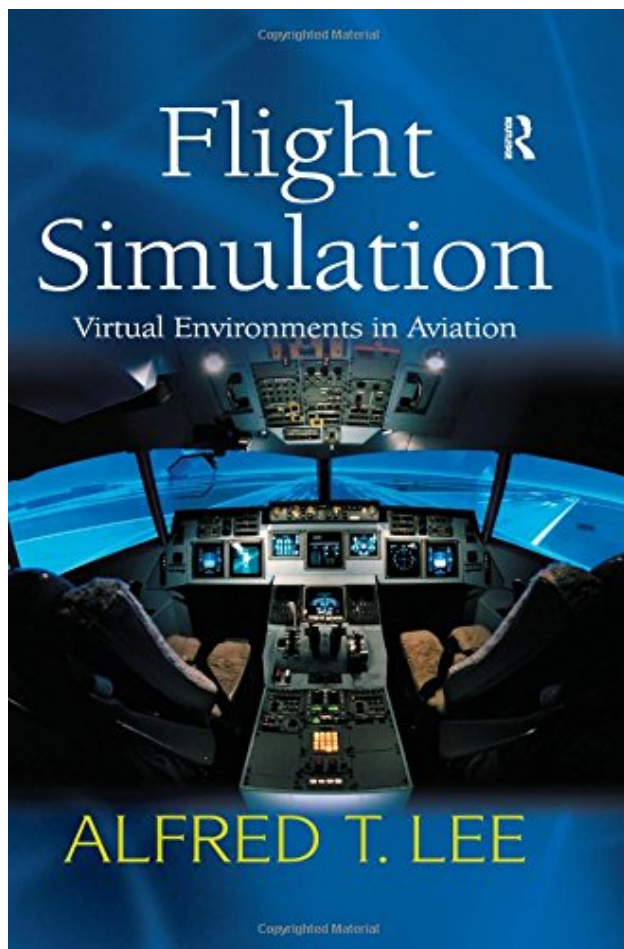
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Product Description



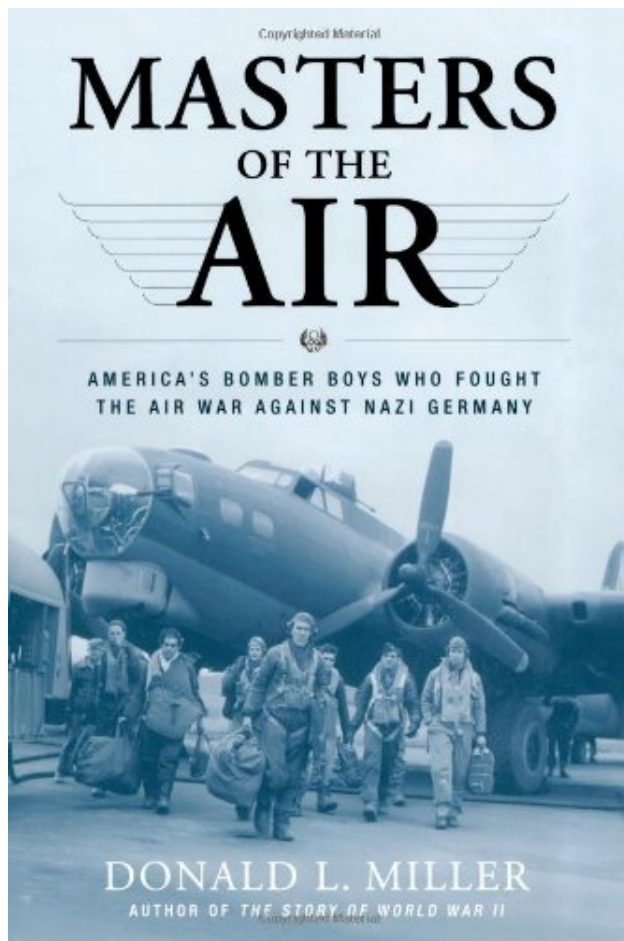
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Masters of the Air: America's Bomber Boys Who Fought the Air War Against Nazi Germany

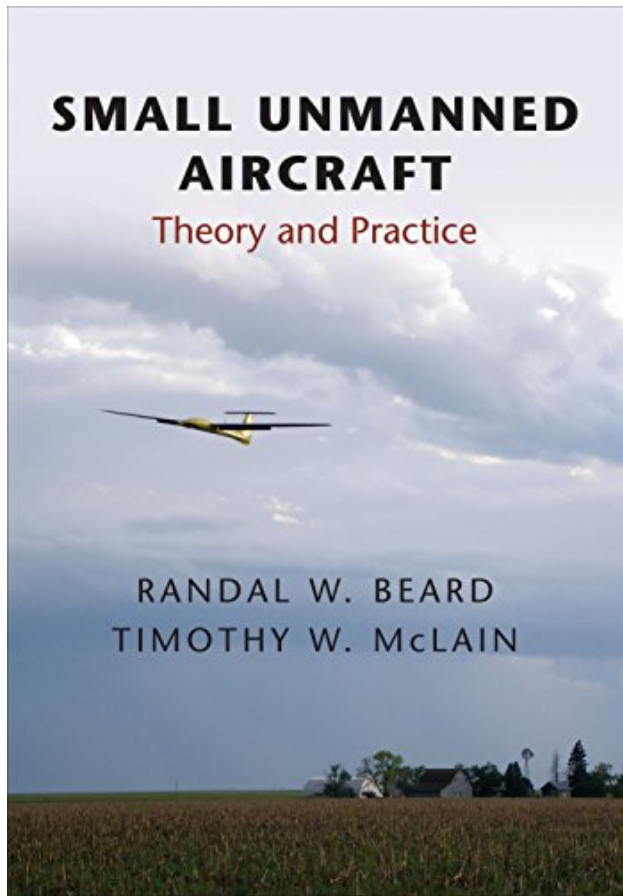
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SKU: 9780743235457

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Product Description



Small Unmanned Aircraft: Theory and Practice

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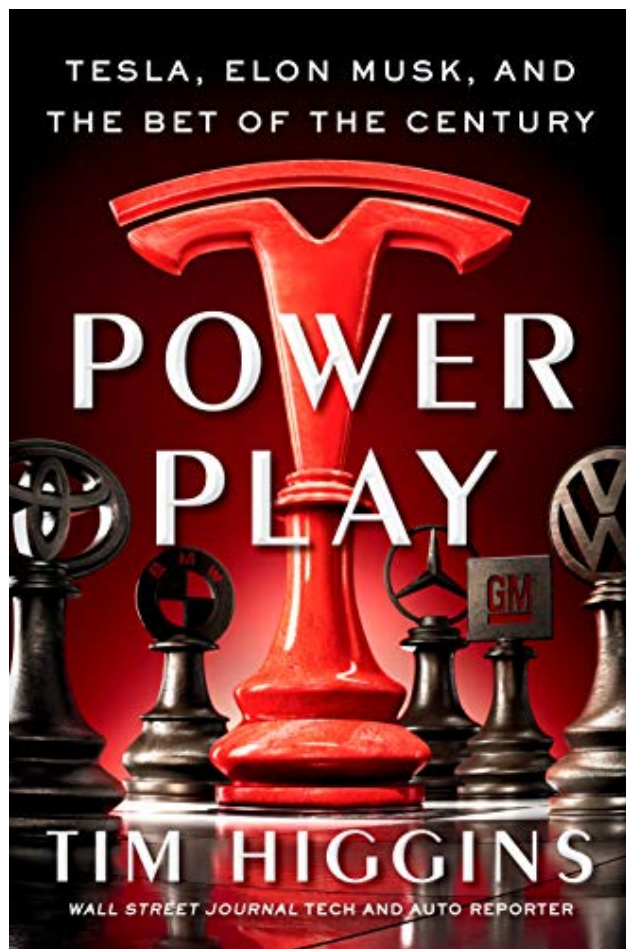
SKU: 9780691149219

Price: \$2,520.00

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [INTELLIGENT & AUTOMATED TRANSPORT SYSTEM TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description

Autonomous unmanned air vehicles (UAVs) are critical to current and future military, civil, and commercial operations. Despite their importance, no previous textbook has accessibly introduced UAVs to students in the engineering, computer, and science disciplines--until now. *Small Unmanned Aircraft* provides a concise but comprehensive description of the key concepts and technologies underlying the dynamics, control, and guidance of fixed-wing unmanned aircraft, and enables all students with an introductory-level background in controls or robotics to enter this exciting and important area. The authors explore the essential underlying physics and sensors of UAV problems, including low-level autopilot for stability and higher-level autopilot functions of path planning. The textbook leads the student from rigid-body dynamics through aerodynamics, stability augmentation, and state estimation using onboard sensors, to maneuvering through obstacles. To facilitate understanding, the authors have replaced traditional homework assignments with a simulation project using the MATLAB/Simulink environment. Students begin by modeling rigid-body dynamics, then add aerodynamics and sensor models. They develop low-level autopilot code, extended Kalman filters for state estimation, path-following routines, and high-level path-planning algorithms. The final chapter of the book focuses on UAV guidance using machine vision. Designed for advanced undergraduate or graduate students in engineering or the sciences, this book offers a bridge to the aerodynamics and control of UAV flight.



Power Play: Tesla, Elon Musk, and the Bet of the Century

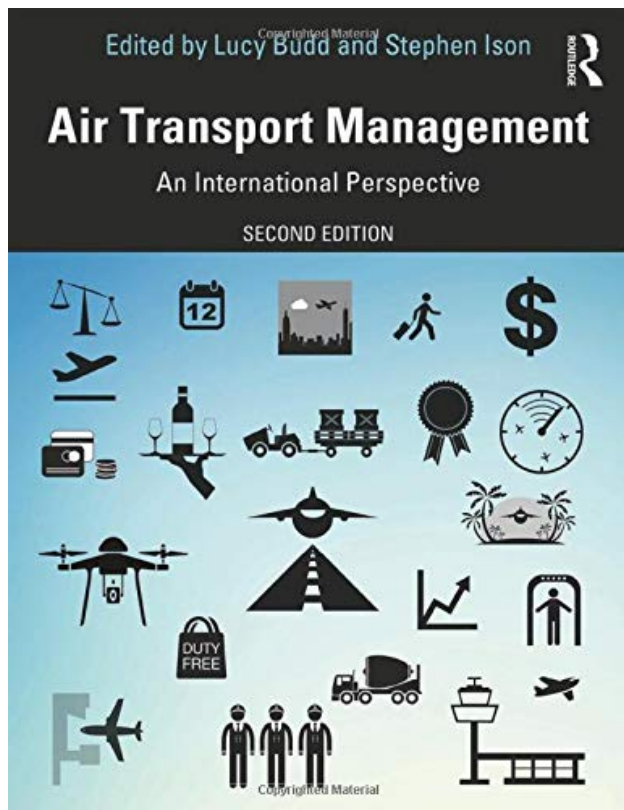
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Categories: [AUTOMOTIVE TECHNOLOGY](#), [BIOGRAPHY: GENERAL](#), [Biography: science, technology & medicine](#), [INDUSTRY & INDUSTRIAL STUDIES](#), [INDUSTRY & INDUSTRIAL STUDIES](#), [LANGUAGE, LITERATURE AND BIOGRAPHY](#), [MANUFACTURING INDUSTRIES](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description



Air Transport Management: An International Perspective

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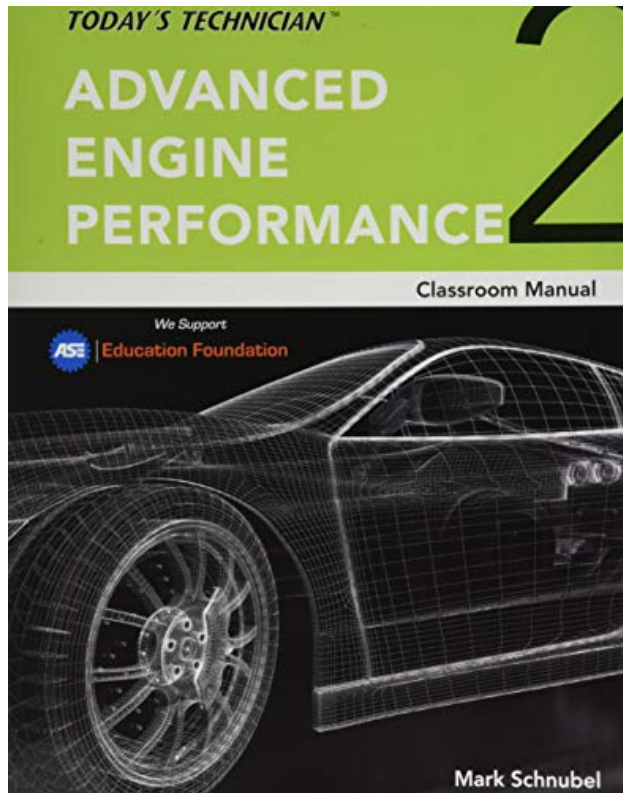
SKU: 9780367280574

Price: \$1,279.95

Categories: [AEROSPACE & AIR TRANSPORT INDUSTRIES](#), [AEROSPACE & AVIATION TECHNOLOGY](#), [BUSINESS & MANAGEMENT](#), [ECONOMICS](#), [ECONOMICS](#), [ECONOMICS](#), [FINANCE](#), [BUSINESS AND INDUSTRY](#), [INDUSTRY & INDUSTRIAL STUDIES](#), [INDUSTRY & INDUSTRIAL STUDIES](#), [TRANSPORT INDUSTRIES](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description

Air Transport Management: An International Perspective provides in-depth instruction in the diverse and dynamic area of commercial air transport management. The 2nd edition has been extensively revised and updated to reflect the latest developments in the sector. The textbook includes both introductory reference material and more advanced content so as to provide a solid foundation in the core principles and practices of air transport management. This 2nd edition includes a new chapter on airline regulation and deregulation and new dedicated chapters focusing on aviation safety and aviation security. Four new contributors bring additional insights and expertise to the book. The 2nd edition retains many of the key features of the 1st edition, including: * A clearly structured topic-based approach that provides information on key air transport management issues including: aviation law, economics; airport and airline management; finance; environmental impacts, human resource management; and marketing; * Chapters authored by leading air transport academics and practitioners worldwide which provide an international perspective; * Learning objectives and key points which provide a framework for learning; * Boxed case studies and examples in each chapter; * Keyword definitions and stop and think boxes to prompt reflection and aid understanding of key terms and concepts. Designed for undergraduate and postgraduate students studying aviation and business management degree programmes and industry practitioners seeking to expand their knowledge base, the book provides a single point of reference to the key legal, regulatory, strategic and operational concepts and processes that shape the form and function of the world's commercial air transport industry.



Today's Technician: Advanced Engine Performance Classroom Manual and Shop Manual

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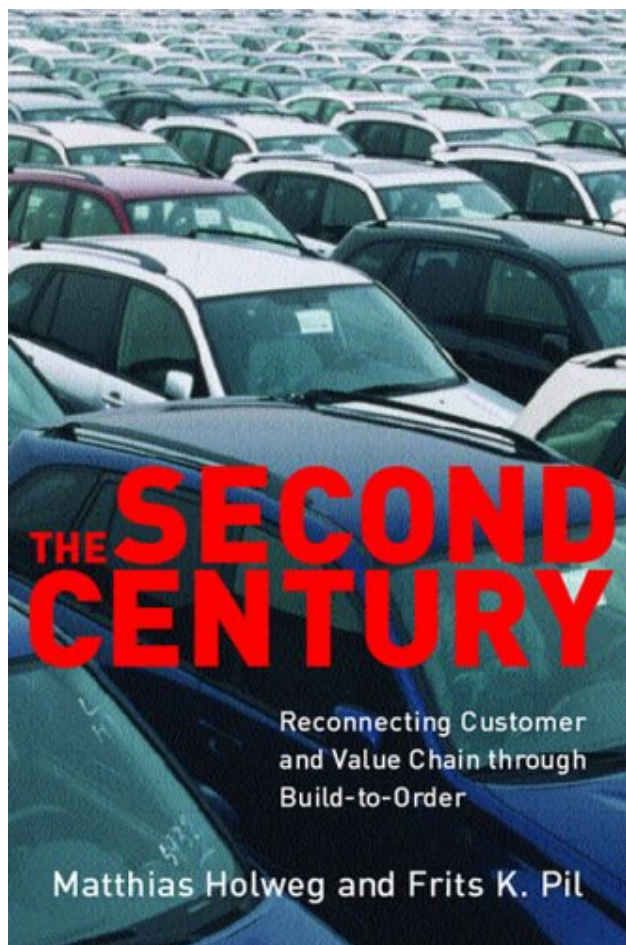
Price: \$2,308.95

Categories: [AUTOMOTIVE TECHNOLOGY](#), [EDUCATION](#), [INDUSTRIAL CHEMISTRY & MANUFACTURING TECHNOLOGIES](#), [INDUSTRIAL CHEMISTRY & MANUFACTURING TECHNOLOGIES](#), [SOCIAL SCIENCES](#), [Teaching of a specific subject](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description

Part of the popular Today's Technician series, this reader-friendly text provides an in-depth guide to advanced performance topics such as drivability, emissions testing, and engine diagnostics. In addition to a thorough review of on-board diagnostic generation II (OBD II) continuous monitors and non-continuous monitors strategies, the text includes a chapter on emission control and evaporative systems, as well as detailed information on OBD II generic diagnostic trouble codes (DTC) identification and diagnosis and malfunction indicator light strategies. To help you gain essential knowledge while honing practical job skills, the text includes both a Classroom Manual and a hands-on Shop Manual. The Second Edition features new

industry trends, including variable valve and camshaft timing designs, variable displacement and variable lift engine designs currently in production, and advanced on-board diagnostic scanners and digital storage oscilloscopes.



The Second Century: Reconnecting Customer and Value Chain through Build-to-Order Moving beyond Mass and Lean Production in the Auto Industry (The MIT Press)

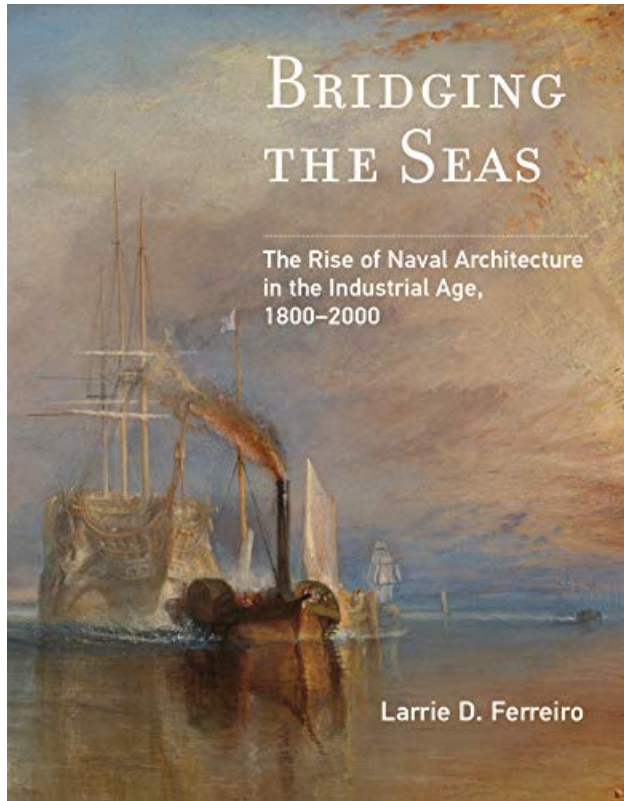
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Product Description



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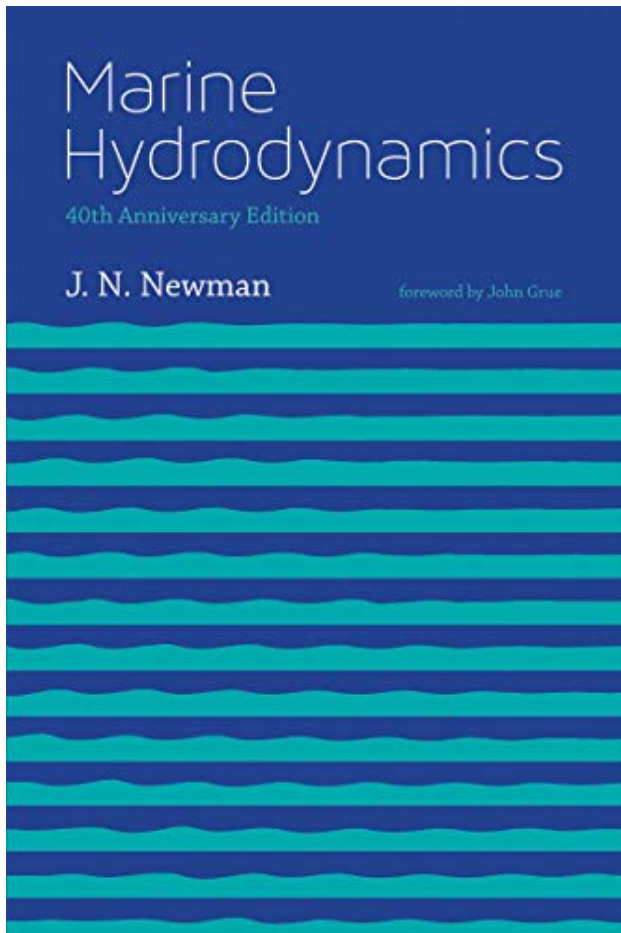
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Product Description



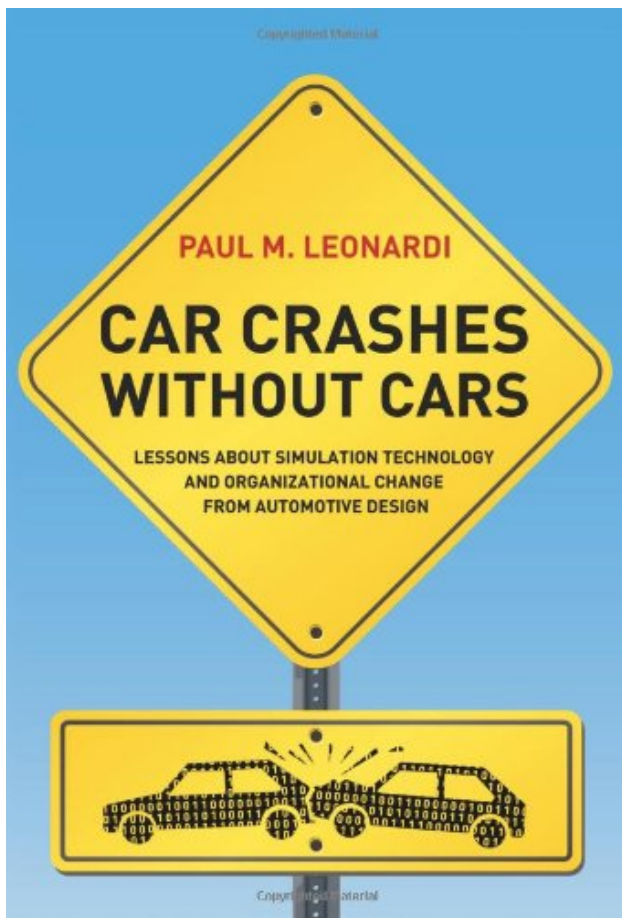
Marine Hydrodynamics, 40th anniversary edition (The MIT Press)

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Price: \$1,260.00

Categories: [SHIP DESIGN & NAVAL ARCHITECTURE](#), [SHIPBUILDING TECHNOLOGY & ENGINEERING](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)



Car Crashes without Cars: Lessons about Simulation Technology and Organizational Change from Automotive Design (Acting with Technology)

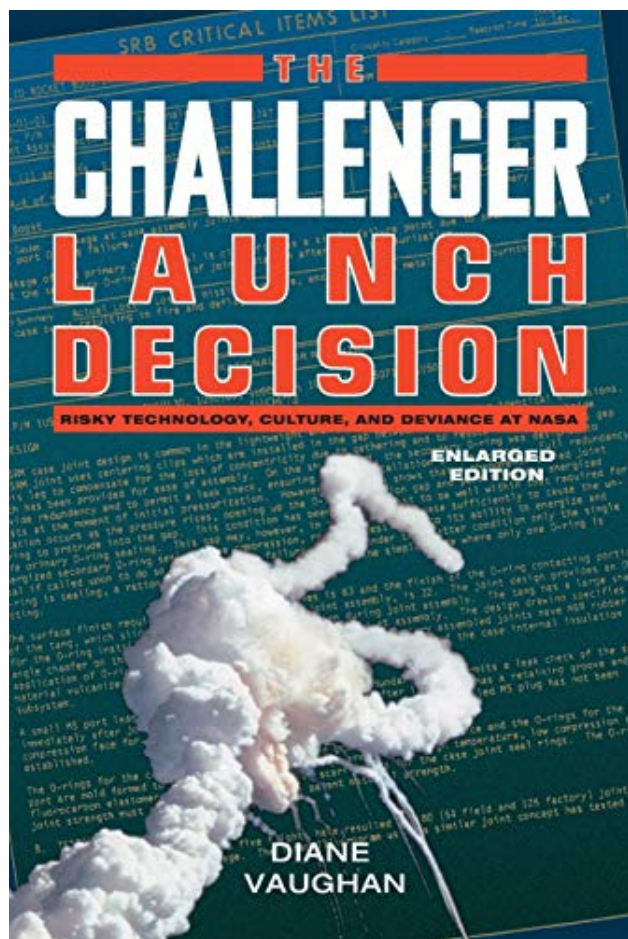
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Product Description



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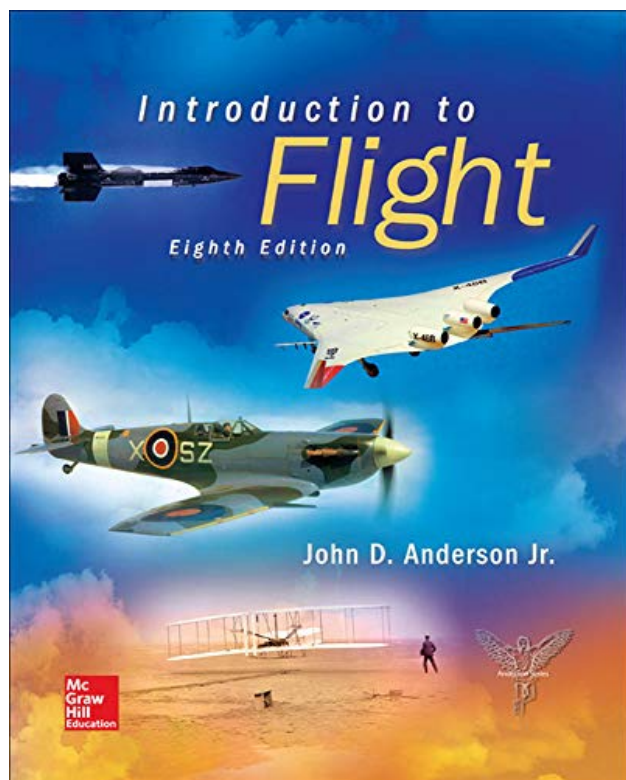
SKU: 9780226346823

Price: \$546.00

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Product Description

When the Space Shuttle Challenger exploded on January 28, 1986, millions of Americans became bound together in a single, historic moment. Many still vividly remember exactly where they were and what they were doing when they heard about the tragedy. Diane Vaughan recreates the steps leading up to that fateful decision, contradicting conventional interpretations to prove that what occurred at NASA was not skullduggery or misconduct but a disastrous mistake. Why did NASA managers, who not only had all the information prior to the launch but also were warned against it, decide to proceed? In retelling how the decision unfolded through the eyes of the managers and the engineers, Vaughan uncovers an incremental descent into poor judgment, supported by a culture of high-risk technology. She reveals how and why NASA insiders, when repeatedly faced with evidence that something was wrong, normalized the deviance so that it became acceptable to them. In a new preface, Vaughan reveals the ramifications for this book and for her when a similar decision-making process brought down NASA's Space Shuttle Columbia in 2003.



Introduction to Flight

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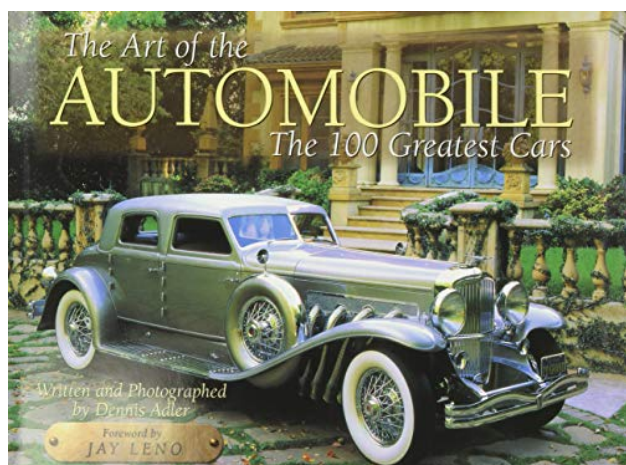
SKU: 9780078027673

Price: \$4,858.56

Categories: [AEROSPACE & AVIATION TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#), [TRANSPORT TECHNOLOGY](#)

Product Description

Noted for its highly readable style, the new edition of this bestseller provides an updated overview of aeronautical and aerospace engineering. Introduction to Flight blends history and biography with discussion of engineering concepts, and shows the development of flight through this perspective. Anderson covers new developments in flight, including unmanned aerial vehicles, uninhabited combat aerial vehicles, and applications of CFD in aircraft design. Many new and revised problems have been added in this edition. Chapter learning features help readers follow the text discussion while highlighting key engineering and industry applications. McGraw-Hill's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a multi-step solution which helps move the students' learning along if they experience difficulty.



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