

# Advanced Control Of Aircraft Spacecraft And Rockets Maximum Likelihood Estimation Logic And Practice Quantitative Applications In The Social Sciences

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**Rocket Development** Robert H. Goddard  
2013-10 This is a new release of the original  
1960 edition.

**Antares Dawn** Michael McCollum  
2019-05-01 When the supergiant star  
Antares exploded in 2512, the human  
colony on Alta found their pathway to the  
stars gone, isolating them from the rest of  
human space for more than a century. When  
a powerful warship materializes in the  
system without warning, the commanders of  
the Altan Space Navy are alarmed. They  
dispatch one of Alta's most powerful ships  
to investigate, only to discover the unknown

behemoth is battered and helmed by a dead  
crew. This is disturbing news for the Altans  
as the defeated battleship would have easily  
defeated the whole of the Altan navy on it's  
own. And if that ship was able to stumble  
into the Altan system, so too could the force  
responsible for its destruction. Something  
must be done.

*The Washing Away of Wrongs* Tz'u Sung  
1981 An English translation of the oldest  
extant book on forensic medicine in the  
world

**A First Course in Turbulence** Hendrik  
Tennekes 1972 Problems after each chapter  
*Nuclear Propulsion for Space*

**Electronic Miniaturization** United States. National Bureau of Standards. Electronics and Ordnance Division 1949

**Missile Guidance and Control Systems**

George M. Siouris 2006-05-07 Airborne Vehicle Guidance and Control Systems is a broad and wide- angled engineering and technological area for research, and continues to be important not only in military defense systems but also in industrial process control and in commercial transportation networks such as various Global Positioning Systems (GPS). The book fills a long-standing gap in the literature. The author is retired from the Air Force Institute and received the Air Force's Outstanding Civilian Career Service Award.

**Criminalistics** Richard Saferstein 2015 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. This best-

selling text, written for the non-scientist, is appropriate for a wide variety of students, including criminal justice, law enforcement, law, and more! **Criminalistics: An Introduction to Forensic Science**, 11e, strives to make the technology of the modern crime laboratory clear and comprehensible to the non-scientist. The nature of physical evidence is defined, and the limitations that technology and current knowledge i.

Shaving with Occam's Razor Peter Schorer 1985

**To the End of the Solar System** James A. Dewar 2007 The exploration of space could have been decades ahead of where we are now... During a two-decade period;, from the 1950s to the 1970s, a nuclear rocket propulsion system was developed capable of performing robotic and human exploration of our solar system. The US government's Rover programme developed the system

and succeeded in demonstrating the propulsion capabilities required for deep space exploration missions. The programme was terminated for political reasons in the mid-1970s. You have to wonder-if the nuclear rocket had been used and further developed during the 30 years since then, where could we be today? This comprehensive history details both the technical accomplishments of the nuclear rocket system and the political wrangling that strangled it. Together, NASA and the Atomic Energy Commission carried out the Rover program, and together they had their budgets slashed and were micro-managed by pork-barrel-motivated politicians. And after accomplishing success against the odds, they were shut down. Instead of NERVA, the state-of-the-art nuclear system developed by the Rover program, Congress was sold on the Space Shuttle, outdated before it was launched. Instead of the solar

system, we got low-Earth orbit. James A Dewar has produced a well-researched and well-organised account of what was accomplished, who made the decisions, and why it all was for naught. If NASA and the AEC had been allowed to do the job they had originally been given, today we could have been exploring out To the End of the Solar System.

**Bramwell's Helicopter Dynamics** A. R. S. Bramwell 2001-04-06 Since the original publication of 'Bramwell's Helicopter Dynamics' in 1976, this book has become the definitive text on helicopter dynamics and a fundamental part of the study of the behaviour of helicopters. This new edition builds on the strengths of the original and hence the approach of the first edition is retained. The authors provide a comprehensive overview of helicopter aerodynamics, stability, control, structural dynamics, vibration, aeroelastic and

aeromechanical stability. As such, Bramwell's Helicopter Dynamics is essential for all those in aeronautical engineering. THE single volume comprehensive guide for anyone working with helicopters Written by leading worldwide experts in the field Linear Systems Alok Sinha 2007-01-31 Balancing rigorous theory with practical applications, Linear Systems: Optimal and Robust Control explains the concepts behind linear systems, optimal control, and robust control and illustrates these concepts with concrete examples and problems. Developed as a two-course book, this self-contained text first discusses linear systems, including controllability, observability, and matrix fraction description. Within this framework, the author develops the ideas of state feedback control and observers. He then examines optimal control, stochastic optimal control, and the lack of robustness of linear

quadratic Gaussian (LQG) control. The book subsequently presents robust control techniques and derives  $H^\infty$  control theory from the first principle, followed by a discussion of the sliding mode control of a linear system. In addition, it shows how a blend of sliding mode control and  $H^\infty$  methods can enhance the robustness of a linear system. By learning the theories and algorithms as well as exploring the examples in Linear Systems: Optimal and Robust Control, students will be able to better understand and ultimately better manage engineering processes and systems.

*Fundamentals of Gas Dynamics* Robert D. Zucker 2019-10-15 New edition of the popular textbook, comprehensively updated throughout and now includes a new dedicated website for gas dynamic calculations The thoroughly revised and updated third edition of Fundamentals of

Gas Dynamics maintains the focus on gas flows below hypersonic. This targeted approach provides a cohesive and rigorous examination of most practical engineering problems in this gas dynamics flow regime. The conventional one-dimensional flow approach together with the role of temperature-entropy diagrams are highlighted throughout. The authors—noted experts in the field—include a modern computational aid, illustrative charts and tables, and myriad examples of varying degrees of difficulty to aid in the understanding of the material presented. The updated edition of Fundamentals of Gas Dynamics includes new sections on the shock tube, the aerospoke nozzle, and the gas dynamic laser. The book contains all equations, tables, and charts necessary to work the problems and exercises in each chapter. This book's accessible but rigorous style: Offers a comprehensively updated

edition that includes new problems and examples Covers fundamentals of gas flows targeting those below hypersonic Presents the one-dimensional flow approach and highlights the role of temperature-entropy diagrams Contains new sections that examine the shock tube, the aerospoke nozzle, the gas dynamic laser, and an expanded coverage of rocket propulsion Explores applications of gas dynamics to aircraft and rocket engines Includes behavioral objectives, summaries, and check tests to aid with learning Written for students in mechanical and aerospace engineering and professionals and researchers in the field, the third edition of Fundamentals of Gas Dynamics has been updated to include recent developments in the field and retains all its learning aids. The calculator for gas dynamics calculations is available at <https://www.oscarbiblarz.com/gascalculator>

gas dynamics calculations

## **FUNDAMENTALS OF NAVIGATION AND INERTIAL SENSORS** AMITAVA BOSE

2014-01-01 Navigation fundamentally provides information on position, velocity and direction which are needed for travel in ocean, land, air and in space. The myriad forms of navigation developed so far are collectively called modern navigation. This recent text discusses new promising developments that will assist the students when they enter their future professional career. It is the outcome of authors' wide experience in teaching, research and development in the field of navigation and inertial sensors. The content of the book is designed to impart adequate knowledge to the students in the area of navigation and related sensors. The text discusses inertial navigation, inertial sensors, MEMS based inertial sensors, satellite navigation, integrated inertial navigation, signal

processing of inertial sensors and their applications. The chapters introduce all the topics in an easy to understand manner so that an appreciative understanding of the text matter can be made without resorting to equations and mathematics. Considerable references have been provided to enable both the students and the professors to dwell and learn more on the topics of their interest. This textbook is primarily intended to meet the academic needs of undergraduate and postgraduate students of aerospace engineering and avionics.

**Low-Speed Wind Tunnel Testing** Jewel B. Barlow 1999-02-22 A brand-new edition of the classic guide on low-speed wind tunnel testing While great advances in theoretical and computational methods have been made in recent years, low-speed wind tunnel testing remains essential for obtaining the full range of data needed to guide detailed design decisions for many

practical engineering problems. This long-awaited Third Edition of William H. Rae, Jr.'s landmark reference brings together essential information on all aspects of low-speed wind tunnel design, analysis, testing, and instrumentation in one easy-to-use resource. Written by authors who are among the most respected wind tunnel engineers in the world, this edition has been updated to address current topics and applications, and includes coverage of digital electronics, new instrumentation, video and photographic methods, pressure-sensitive paint, and liquid crystal-based measurement methods. The book is organized for quick access to topics of interest, and examines basic test techniques and objectives of modeling and testing aircraft designs in low-speed wind tunnels, as well as applications to fluid motion analysis, automobiles, marine vessels, buildings, bridges, and other structures subject to wind loading.

Supplemented with real-world examples throughout, *Low-Speed Wind Tunnel Testing, Third Edition* is an indispensable resource for aerospace engineering students and professionals, engineers and researchers in the automotive industries, wind tunnel designers, architects, and others who need to get the most from low-speed wind tunnel technology and experiments in their work.

*We Claim These Stars* Poul Anderson 1976

Dominic Flandry, captain of Terran intelligence during a galactic war, must ambush and capture a telepath who not only knows what everyone is thinking nearby, but can read minds at a distance.

*Wallops Station* 1968

**Biogeochemistry** W.H. Schlesinger

2013-01-14 For the past 4 billion years, the chemistry of the Earth's surface, where all life exists, has changed remarkably.

Historically, these changes have occurred

slowly enough to allow life to adapt and evolve. In more recent times, the chemistry of the Earth is being altered at a staggering rate, fueled by industrialization and an ever-growing human population. Human activities, from the rapid consumption of resources to the destruction of the rainforests and the expansion of smog-covered cities, are all leading to rapid changes in the basic chemistry of the Earth. The Third Edition of Biogeochemistry considers the effects of life on the Earth's chemistry on a global level. This expansive text employs current technology to help students extrapolate small-scale examples to the global level, and also discusses the instrumentation being used by NASA and its role in studies of global change. With the Earth's changing chemistry as the focus, this text pulls together the many disparate fields that are encompassed by the broad reach of biogeochemistry. With extensive

cross-referencing of chapters, figures, and tables, and an interdisciplinary coverage of the topic at hand, this text will provide an excellent framework for courses examining global change and environmental chemistry, and will also be a useful self-study guide. Emphasizes the effects of life on the basic chemistry of the atmosphere, the soils, and seawaters of the EarthCalculates and compares the effects of industrial emissions, land clearing, agriculture, and rising population on Earth's chemistrySynthesizes the global cycles of carbon, nitrogen, phosphorous, and sulfur, and suggests the best current budgets for atmospheric gases such as ammonia, nitrous oxide, dimethyl sulfide, and carbonyl sulfideIncludes an extensive review and up-to-date synthesis of the current literature on the Earth's biogeochemistry.

**Clinical Assessment of Malingering and Deception, Fourth Edition** Richard Rogers

2020-05-28 "Widely used by practitioners, researchers, and students--and now thoroughly revised with 70% new material--this is the most authoritative, comprehensive book on malingering and related response styles. Leading experts translate state-of-the-art research into clear, usable strategies for detecting deception in a wide range of psychological and psychiatric assessment contexts, including forensic settings. The book examines dissimulation across multiple domains: mental disorders, cognitive impairments, and medical complaints. It describes and critically evaluates evidence-based applications of multiscale inventories, other psychological measures, and specialized methods. Applications are discussed for specific populations, such as sex offenders, children and adolescents, and law enforcement personnel. Key Words/Subject Areas: malingering, deception, deceptive,

feigning, dissimulation, feigned cognitive impairment, feigned conditions, defensiveness, response styles, response bias, impression management, false memories, forensic psychological assessments, forensic assessments, clinical assessments, forensic mental health, forensic psychological evaluations, forensic psychologists, forensic psychiatrists, psychological testing and assessment, detection strategies, expert testimony, expert witnesses, family law, child custody disputes, child protection, child welfare Audience: Forensic psychologists and psychiatrists; other mental health practitioners involved in interviewing and assessment, including clinical psychologists, social workers, psychiatrists, and counselors. Also of interest to legal professionals"--

**Cooperative Control of Distributed Multi-Agent Systems** Jeff Shamma

2008-02-28 The paradigm of 'multi-agent' cooperative control is the challenge frontier for new control system application domains, and as a research area it has experienced a considerable increase in activity in recent years. This volume, the result of a UCLA collaborative project with Caltech, Cornell and MIT, presents cutting edge results in terms of the "dimensions" of cooperative control from leading researchers worldwide. This dimensional decomposition allows the reader to assess the multi-faceted landscape of cooperative control. Cooperative Control of Distributed Multi-Agent Systems is organized into four main themes, or dimensions, of cooperative control: distributed control and computation, adversarial interactions, uncertain evolution and complexity management. The military application of autonomous vehicles systems or multiple unmanned vehicles is primarily targeted; however much of the material is

relevant to a broader range of multi-agent systems including cooperative robotics, distributed computing, sensor networks and data network congestion control. Cooperative Control of Distributed Multi-Agent Systems offers the reader an organized presentation of a variety of recent research advances, supporting software and experimental data on the resolution of the cooperative control problem. It will appeal to senior academics, researchers and graduate students as well as engineers working in the areas of cooperative systems, control and optimization.

**Danger in Deep Space** Carey Rockwell  
2014-04-11 Carey Rockwell is the pseudonym used for the author of the Tom Corbet Space Cadet series of books written for young boys. This 1950's series included books, comic strips, coloring books and television shows. The Tom Corbett space series consists of eight books, which may

have been based on the novel Space Cadet by Robert Heinlein. The series follows the adventures of Tom and his friend Roger as they train to be members of the Solar Guard. The stories center around the academy, the bunkroom and their training ship Polaris. Their adventures take them to alien worlds in our solar system and beyond.

**Goddard Space Flight Center 1972**

*Advances in Unmanned Aerial Vehicles* Kimon P. Valavanis 2008-02-26 The past decade has seen tremendous interest in the production and refinement of unmanned aerial vehicles, both fixed-wing, such as airplanes and rotary-wing, such as helicopters and vertical takeoff and landing vehicles. This book provides a diversified survey of research and development on small and miniature unmanned aerial vehicles of both fixed and rotary wing designs. From historical background to proposed new applications, this is the most

comprehensive reference yet.

Flight 1961

Practical Homicide Investigation Tactics

Procedures Vernon J. Geberth 1992-09-25

History of Flight Riccardo Niccoli 2013 Looks at the history of flight, covering the technical characteristics, development, operating histories, and successes of various types of aircraft.

*Fundamentals of Astrodynamics* Roger R. Bate 2020-01-15 Widely known and used throughout the astrodynamics and aerospace engineering communities, this teaching text was developed at the U.S. Air Force Academy. Completely revised and updated 2013 edition.

**Introduction to Structural Dynamics and Aeroelasticity**

Dewey H. Hodges 2011-08-22 This text provides an introduction to structural dynamics and aeroelasticity, with an emphasis on conventional aircraft. The primary areas

considered are structural dynamics, static aeroelasticity and dynamic aeroelasticity. The structural dynamics material emphasizes vibration, the modal representation and dynamic response. Aeroelastic phenomena discussed include divergence, aileron reversal, airload redistribution, unsteady aerodynamics, flutter and elastic tailoring. More than one hundred illustrations and tables help clarify the text and more than fifty problems enhance student learning. This text meets the need for an up-to-date treatment of structural dynamics and aeroelasticity for advanced undergraduate or beginning graduate aerospace engineering students.

### **Techniques of Crime Scene**

**Investigation** Barry A. J. Fisher 1992

**Small Unmanned Aircraft** Randal W.

Beard 2012-02-26 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.

**Elements of Gasdynamics** Hans Wolfgang Liepmann 2001-01-01 The increasing importance of concepts from compressible fluid flow theory for aeronautical applications makes the republication of this first-rate text particularly timely. Intended mainly for aeronautics students, the text will

also be helpful to practicing engineers and scientists who work on problems involving the aerodynamics of compressible fluids. Covering the general principles of gas dynamics to provide a working understanding of the essentials of gas flow, the contents of this book form the foundation for a study of the specialized literature and should give the necessary background for reading original papers on the subject. Topics include introductory concepts from thermodynamics, including entropy, reciprocity relations, equilibrium conditions, the law of mass action and condensation; one-dimensional gasdynamics, one-dimensional wave motion, waves in supersonic flow, flow in ducts and wind tunnels, methods of measurement, the equations of frictionless flow, small-perturbation theory, transonic flow, effects of viscosity and conductivity, and much more. The text includes numerous

detailed figures and several useful tables, while concluding exercises demonstrate the application of the material in the text and outline additional subjects. Advanced undergraduate or graduate physics and engineering students with at least a working knowledge of calculus and basic physics will profit immensely from studying this outstanding volume.

#### Aircraft Dynamics and Automatic Control

Duane T. McRuer 2014-07-14 Aeronautical engineers concerned with the analysis of aircraft dynamics and the synthesis of aircraft flight control systems will find an indispensable tool in this analytical treatment of the subject. Approaching these two fields with the conviction that an understanding of either one can illuminate the other, the authors have summarized selected, interconnected techniques that facilitate a high level of insight into the essence of complex systems problems.

These techniques are suitable for establishing nominal system designs, for forecasting off-nominal problems, and for diagnosing the root causes of problems that almost inevitably occur in the design process. A complete and self-contained work, the text discusses the early history of aircraft dynamics and control, mathematical models of linear system elements, feedback system analysis, vehicle equations of motion, longitudinal and lateral dynamics, and elementary longitudinal and lateral feedback control. The discussion concludes with such topics as the system design process, inputs and system performance assessment, and multi-loop flight control systems. Originally published in 1974. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve

the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Missile Guidance and Pursuit N A Shneydor  
1998-01-01 The continuing evolving capability of guided weapons demands ever more knowledge of their development. This modern and comprehensive book covers the control aspect of guidance of missiles, torpedoes, robots, and even animal predators, from the viewpoint of the pursuer. The text studies trajectories, zones of interception, the required manoeuvre effort, time of flight, launch envelopes, and stability of the guidance process. Mathematics at first-year university level is the only prerequisite. Acquaintance with

feedback control theory would be helpful to the reader. Covers the control aspect of guidance of missiles, torpedoes, robots, and even animal predators, from the viewpoint of the pursuer. Studies trajectories, zones of interception, the required manoeuvre effort, time of flight, launch envelopes, and stability of the guidance process

**Science and Engineering of Nuclear Power** C. Goodman 1956

Fatigue of Structures and Materials J. Schijve  
2008-12-16 Fatigue of structures and materials covers a wide scope of different topics. The purpose of the present book is to explain these topics, to indicate how they can be analyzed, and how this can contribute to the designing of fatigue resistant structures and to prevent structural fatigue problems in service. Chapter 1 gives a general survey of the topic with brief comments on the significance of the aspects involved. This

serves as a kind of a program for the following chapters. The central issues in this book are predictions of fatigue properties and designing against fatigue. These objectives cannot be realized without a physical and mechanical understanding of all relevant conditions. In Chapter 2 the book starts with basic concepts of what happens in the material of a structure under cyclic loads. It illustrates the large number of variables which can affect fatigue properties and it provides the essential background knowledge for subsequent chapters. Different subjects are presented in the following main parts:

- Basic chapters on fatigue properties and predictions (Chapters 2–8)
- Load spectra and fatigue under variable-amplitude loading (Chapters 9–11)
- Fatigue tests and scatter (Chapters 12 and 13)
- Special fatigue conditions (Chapters 14–17)
- Fatigue of joints and structures (Chapters 18–20)
- Fiber-metal

laminates (Chapter 21) Each chapter presents a discussion of a specific subject.

### **Stability and Transition in Shear Flows**

Peter J. Schmid 2012-12-06 A detailed look at some of the more modern issues of hydrodynamic stability, including transient growth, eigenvalue spectra, secondary instability. It presents analytical results and numerical simulations, linear and selected nonlinear stability methods. By including classical results as well as recent developments in the field of hydrodynamic stability and transition, the book can be used as a textbook for an introductory, graduate-level course in stability theory or for a special-topics fluids course. It is equally of value as a reference for researchers in the field of hydrodynamic stability theory or with an interest in recent developments in fluid dynamics. Stability theory has seen a rapid development over the past decade, this book includes such new developments

as direct numerical simulations of transition to turbulence and linear analysis based on the initial-value problem.

Mechanics of Aircraft Structures C. T. Sun  
2006-04-28 Designed to help students get a solid background in structural mechanics and extensively updated to help professionals get up to speed on recent advances This Second Edition of the bestselling textbook Mechanics of Aircraft Structures combines fundamentals, an overview of new materials, and rigorous analysis tools into an excellent one-semester introductory course in structural mechanics and aerospace engineering. It's also extremely useful to practicing aerospace or mechanical engineers who want to keep abreast of new materials and recent advances. Updated and expanded, this hands-on reference covers: \*

- Introduction to elasticity of anisotropic solids, including mechanics of composite

- materials and laminated structures
- \* Stress analysis of thin-walled structures with end constraints
- \* Elastic buckling of beam-column, plates, and thin-walled bars
- \* Fracture mechanics as a tool in studying damage tolerance and durability

Designed and structured to provide a solid foundation in structural mechanics, Mechanics of Aircraft Structures, Second Edition includes more examples, more details on some of the derivations, and more sample problems to ensure that students develop a thorough understanding of the principles.

*Fast Spectrum Reactors* Alan E. Waltar  
2011-09-28 This book is a complete update of the classic 1981 FAST BREEDER REACTORS textbook authored by Alan E. Waltar and Albert B. Reynolds, which , along with the Russian translation, served as a major reference book for fast reactors systems. Major updates include transmutation physics (a key technology to

substantially ameliorate issues associated with the storage of high-level nuclear waste), advances in fuels and materials technology (including metal fuels and cladding materials capable of high-temperature and high burnup), and new approaches to reactor safety (including passive safety technology). New chapters on gas-cooled and lead-cooled fast spectrum reactors are also included. Key international experts contributing to the text include Chaim Braun, (Stanford University) Ronald Omberg, (Pacific Northwest National Laboratory, Massimo Salvatores (CEA, France), Baldev Raj, (Indira Gandhi Center for Atomic Research, India), John Sackett

(Argonne National Laboratory), Kevan Weaver, (TerraPower Corporation), James Seinicki (Argonne National Laboratory), Russell Stachowski (General Electric), Toshikazu Takeda (University of Fukui, Japan), and Yoshitaka Chikazawa (Japan Atomic Energy Agency).

*Progress in Flying Machines* Octave Chanute 1899 Beskriver generelle principper for at flyve og fortæller om de første forsøg på at bygge en egentlig flyvemaskine før det lykkedes at gennemføre en bemanded, motordrevet flyvning

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