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Aircraft Communications and Navigation Systems

Routledge Butterworth-Heinemann's Aircraft Engineering Principles and Practice Series provides students, apprentices and practicing aerospace professionals with the definitive resources to advance their aircraft engineering maintenance studies and career. This book provides an introduction to the principles of communications and navigation systems. It is written for anyone pursuing a career in aircraft maintenance engineering or a related aerospace engineering discipline, and in particular will be suitable for those studying for licensed aircraft maintenance engineer status. The book systematically addresses the relevant sections (ATA chapters 23/34) of modules 11 and 13 of part-66 of the EASA syllabus. It is ideal for anyone studying as part of an EASA and FAR-147 approved course in aerospace engineering.

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Encyclopedia of Technical Aviation

McGraw-Hill This handy reference will be valuable to pilots, managers, planners, designers, engineers, safety directors, and flight instructors who need fast answers to technical aviation questions. Includes hundreds of diagrams and illustrations.

Infantry Journal

Report

Journal of the Royal Aeronautical Society

Guide to the Evaluation of Educational Experiences in the Armed Services: Coast Guard, Marine Corps, Navy, Department of Defense

The Navigator

U.S. Government Research & Development Reports

Applied Mathematics in Integrated Navigation Systems

Amer Inst of Aeronautics & The subject of integrated navigation systems covered in this book is designed for those directly involved with the design, integration, and test and evaluation of navigation systems. It is assumed that the reader has a background in mathematics, including calculus. Integrated navigation systems are the combination of an onboard navigation solution (position, velocity, and attitude) and independent navigation data (aids to navigation) to update or correct navigation solutions. In this book, this combination is accomplished with Kalman filter algorithms.

Integrated Aircraft Navigation

Elsevier Integrated Aircraft Navigation discusses the fundamentals of navigation systems analysis. Modern aircraft navigation systems are characterized by a multifaceted, computer-oriented approach, covering various branches of theoretical dynamics, inertial measurements, radar, radio nav aids, celestial observations, and widely used statistical estimation techniques. Each pertinent field entails much technological development that is not essential for applied systems analysis. The book presents pertinent information extracted from a broad range of topics, expressed in terms of Newtonian physics and matrix-vector mathematics. The book begins by defining basic navigation quantities and functions, and introducing various subjects as an aid to subsequent developments. These include basic motion patterns, navigation coordinate frames, and navigation techniques and requirements. This is followed by separate chapters on coordinate transformations and kinematics; inertial navigation theory; the physics of inertial measurements; and navigation with multiple sensors. Subsequent chapters deal with dynamic equations for all navigation modes considered; functional relationships and practical considerations for the various navigation aid sensors in common usage; and system applications. This book will be useful to the student or practicing engineer who wants a valid analytical characterization, using the simplest theoretical concepts permissible, while omitting specialized mechanization details.

Scientific and Technical Aerospace Reports

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Flying Magazine

Advances in Aerospace Guidance, Navigation and Control

Selected Papers of the 1st CEAS Specialist Conference on Guidance, Navigation and Control

Springer Science & Business Media Over the last few decades, both the aeronautics and space disciplines have greatly influenced advances in controls, sensors, data fusion and navigation. Many of those achievements that made the word “aerospace” synonymous with “high-tech” were enabled by innovations in guidance, navigation and control. Europe has seen a strong trans-national consolidation process in aerospace over the last few decades. Most of the visible products, like commercial aircraft, fighters, helicopters, satellites, launchers or missiles, are not made by a single country - they are the fruits of cooperation. No European country by itself hosts a specialized guidance, navigation and controls community large enough to cover the whole spectrum of disciplines. However, on a European scale, mutual exchange of ideas, concepts and solutions is enriching for all. The 1st CEAS Specialist Conference on Guidance, Navigation and Control is an attempt to bring this community together. This book is a selection of papers presented at the conference. All submitted papers have gone through a formal review process in compliance with good journal practices. The best papers have been recommended by the reviewers to be published in this book.

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