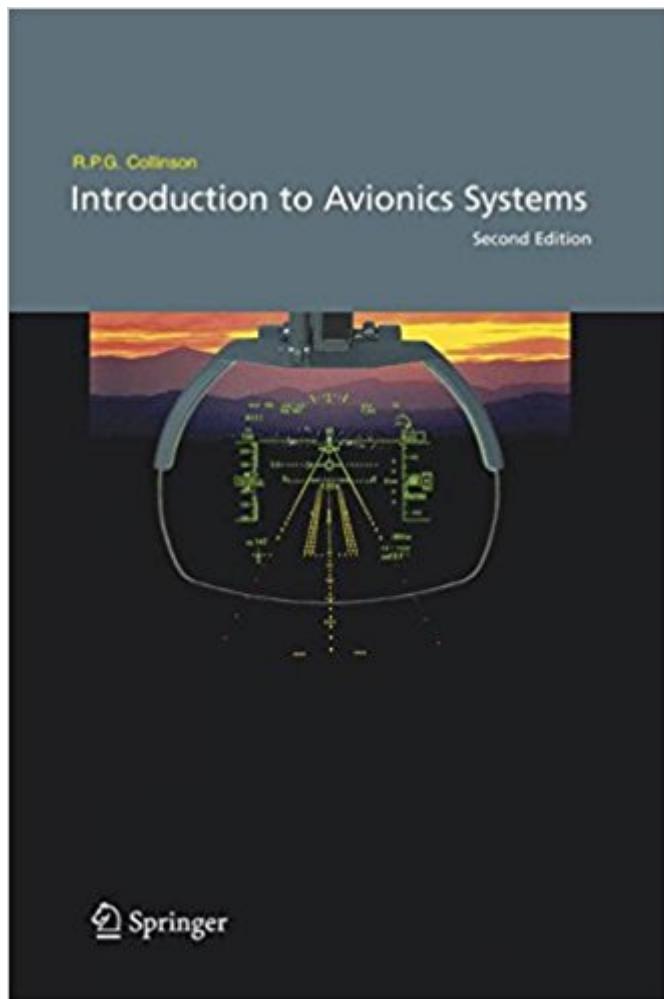


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Introduction To Avionics Systems



Synopsis

Introduction to Avionic Systems, Second Edition explains the principles and theory of modern avionic systems and how they are implemented with current technology for both civil and military aircraft. The systems are analysed mathematically, where appropriate, so that the design and performance can be understood. The book covers displays and man-machine interaction, aerodynamics and aircraft control, fly-by-wire flight control, inertial sensors and attitude derivation, navigation systems, air data and air data systems, autopilots and flight management systems, avionic systems integration and unmanned air vehicles. About the Author. Dick Collinson has had "hands-on" experience of most of the systems covered in this book and, as Manager of the Flight Automation Research Laboratory of GEC-Marconi Avionics Ltd. (now part of BAE Systems Ltd.), led the avionics research activities for the company at Rochester, Kent for many years. He was awarded the Silver Medal of the Royal Aeronautical Society in 1989 for his contribution to avionic systems research and development.

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"The book deals with both civil and military avionic systems. Good in-depth coverage is provided on topics such as displays, fly-by-wire controls, navigation, autopilots and flight management systems and system integration. It provides much theoretical information and calculations, particularly aimed at graduate and post graduate students. There is also a chapter on UAVs, vehicles which are rightly described as being "dependent totally on avionic systems". These are currently and increasingly

used in military applications and also, in the future, for civil applications. [...] The book is very well illustrated in both black and white and colour. Very comprehensive lists of reference documents are provided. A glossary of terms and a list of symbols are provided which are particularly useful to the student readers. [...] The book provides a wealth of detailed and current information on a very wide range of topics. Inevitably, in such a dynamic industry, it will become out of date but it is written in such a way as to allow it to fill a very important gap in the aerospace literature for some years to come." (Royal Aeronautical Society) "... the material gives the reader an excellent and comprehensive introduction to the multidisciplinary knowledge and skills essential for involvement in any modern avionics systems development. [...] It should be essential reading for all graduates involved in aerospace systems work and those entering the avionics industry. It will also provide an excellent reference for practicing system engineers. [...] It is more than just a reference text and I would recommend it to all those with an interest in integrated airborne avionic systems." M.V. Cook, Cranfield University, IEE Computing adn Control Engineering, Oct/Nov. 2005

Dick Collinson has had "hands-on" experience of most of the systems covered in this book and, as Manager of the Flight Automation Research Laboratory of GEC-Marconi Avionics Ltd. (now part of BAE Systems Ltd.), led the avionics research activities for the company at Rochester, Kent for many years. He was awarded the Silver Medal of the Royal Aeronautical Society in 1989 for his contribution to avionic systems research and development.

Very comprehensive book. At the time I bought it, it wasn't the most recent edition, but much lower priced. Still, very informative.

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