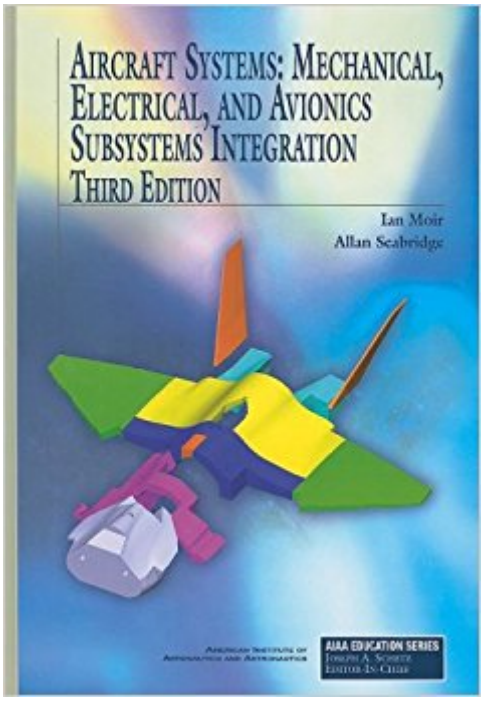
Aircraft Systems: Mechanical, Electrical, And Avionics Subsystems Integration (AIAA Education)



Synopsis

This third edition of Aircraft Systems represents a timely update of this highly successful and widely acclaimed work. Moir and Seabridge present an in-depth study of the general systems of an aircraftelectronics, hydraulics, pneumatics, emergency systems, and flight control to name but a fewthat transform an aircraft shell into a living, functioning, and communicating flying machine. Advances in systems technology continue to integrate systems and avionics, with aircraft support and flight systems increasingly controlled and monitored by electronics; the authors handle the complexities of these interactions in a straightforward and accessible manner that also enhances the books synergy with its two sister volumes, Civil Avionics Systems and Military Avionics Systems.

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Customer Reviews

"The book provides excellent coverage of the complete range of aircraft systems and is thus aimed at the professional aerospace design engineer who may have in-depth knowledge of a specialised area but who would really benefit from a broader appreciation of the workings and constraints applicable to all other aircraft systems." (Aerospace Professional, January 2009)

This third edition of Aircraft Systems represents a timely update of the Aerospace Series' successful and widely acclaimed flagship title. Moir and Seabridge present an in-depth study of the general systems of an aircraft - electronics, hydraulics, pneumatics, emergency systems and flight control to

name but a few - that transform an aircraft shell into a living, functioning and communicating flying machine. Advances in systems technology continue to alloy systems and avionics, with aircraft support and flight systems increasingly controlled and monitored by electronics; the authors handle the complexities of these overlaps and interactions in a straightforward and accessible manner that also enhances synergy with the book's two sister volumes, Civil Avionics Systems and Military Avionics Systems.Aircraft Systems, 3rd Edition is thoroughly revised and expanded from the last edition in 2001, reflecting the significant technological and procedural changes that have occurred in the interim - new aircraft types, increased electronic implementation, developing markets, increased environmental pressures and the emergence of UAVs. Every chapter is updated, and the latest technologies depicted. It offers an essential reference tool for aerospace industry researchers and practitioners such as aircraft designers, fuel specialists, engine specialists, and ground crew maintenance providers, as well as a textbook for senior undergraduate and postgraduate students in systems engineering, aerospace and engineering avionics.

Don't order the paperback - I was charged top dollar for this and missed the sticker on the front cover that says "Wiley-India Edition". A dodgy knock-off photocopied book arrived on my doorstep with an invoice for 8 USD, so someone has made-off with about $40 of my money. When I say dodgy product, I mean some of the pages weren't even the same size as the book cover. Wiley-India just folded the pages up so they fitted inside the book cover for distribution. I did what Wiley-India couldn't do - I pulled out a pair of scissors and cut the pages to about the same size as the cover, so less obvious now. Seems to have the content, but won't really know until I've read it. Generally poor condition product and now wish I had purchased the hard-cover edition from the genuine "Wiley" instead of the back-street photocopy knock-off publishers. Looked inside the cover and it says it is only authorised for sale in the Indian Sub-continent, so don't know why I was allowed to purchase it or where the rest of my money has gone.

I bought this book to help train our younger engineers in aircraft systems. Although our company's various groups specialize in hydraulics, fuel and electrical/lighting systems, I needed a good reference for the other systems that closely interface with ours. This book fits that role perfectly.The training went very well and the book was indeed well received. In fact, one of our senior engineers hijacked the book and read it cover to cover over a weekend, and I almost had to pry it out of his hands to continue the training the following week.The topics that are very well treated include flight controls, especially the more electric controls such as the EHA and IAP. The fuel system and

software development are also very well treated, but in fact all the topics are very comprehensive.Most aircraft systems books seem to be geared toward pilots and mechanics and therefore do not deal with issues at a level that is useful for design and integration into new aircraft This book does that very well. The authors obviously know their subject thoroughly and I am grateful that they took the time and effort to create this book to share their knowledge with others.

This is the most comprehensive book out there on aircraft systems written for engineers. The majority of aircraft systems books are written for pilots or mechanics, but Moir and Seabridge aim directly at the engineering audience with descriptions, examples and design guidance. This book should be in every aerospace engineer’s library.

Good information but needs more graphics and coloured diagrams to explain valves, systems operation. It seems publisher is saving money with black & white pictures and graphics.

This is a great book. It is a real easy read with little to no mathematical gore. If you are interested in aircraft subsystem design, I recommend this book.

Firstly, this is a highly recommended book for Engineers or Engineering students who wishes to understand more about the modern aircraft systems. This book is relatively easy to read as it is more qualitative rather than more quantitative like most engineering textbooks which every pages are filled with endless equations.Secondly, most aircraft systems textbooks are either written for pilots or mechanics who wishes to take the FAA A&P examinations. This book however is written from an Engineer’s perspective. Almost every chapters of this book gives a comparison between the system architecture of different aircraft types from the various manufactures, for example Boeing vs Airbus. As an Engineer working for one of the largest MRO company dealing with both Boeing and Airbus aircraft, this proves to be a very useful insight for engineers as it allows one to understand the different approach adopted by the different manufactures.Lastly, at the current price you invested on this book, it is a relatively good bargain as compared to attending Aircraft Type courses offered by Alteon or LTT since it only cost a fraction of one Aircraft type courses. Although not as in-depth as those courses offered by the EASA 147 training organization, this book is sufficient enough to provide one with a head-start in understanding Aircraft Systems

I am not sure how they’ve done it but there is just so much in this book to help you get to grips with

aircraft systems. There are helpful diagrams and photos on every page and some pretty complex technology is explained really well. Each chapter has a good introduction and takes you through the topics until you hardly know how you've learnt so much.If you're in the aero industry or training to be in it, this book is worth buying. You'll be looking at it everyday. At the back there is some handy contact information too.

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