

Aircraft Systems: Mechanical, Electrical and Avionics Subsystems Integration

By Ian Moir, Allan Seabridge

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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.

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Editorial Review

Review
"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)

From the Back Cover
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About the Author
Lan Moir After 20 years in the royal Air Force as an engineering officer, Ian went on to Smiths Industries in the UK where he was involved in a number of advanced projects. Since retiring from Smiths he is now in demand as a highly respected consultant. Ian has a brad and detailed experience working in aircraft avionics systems in both military and civil aircraft. From the RAF Tornado and Apache helicopter to the Boeing 777, Ian's work has kept him at the forefront of new system developments and integrated systems in the areas of more-electric technology and systems implementations. He has a special interest in fostering training and education in aerospace engineering.

Allan Seabridge was until recently the Chief Flight Systems Engineer at BAE Systems at Warton in Lancashire in the UK. In over 30 years in the aerospace industry his work has latterly included the avionics systems on the Nimrod MRA 4 and Lockheed Martin Lightning II (Joint Strike Fighter) as well as a the development of a range of flight and avionics systems on a wide range of fast jets, training aircraft and ground and maritime surveillance projects. Spending much of his time between Europe and the US, Allan is fully aware of systems developments worldwide. he is also keen to encourage a further understanding of integrated engineering systems. An interest in engineering education continues with the design and delivery of systems and engineering courses at a number of UK universities at undergraduate and postgraduate level.

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