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## Military Avionics Systems (AIAA Education)

By Ian Moir



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This book introduces the military roles expected of aircraft types and describes the avionics systems required to fulfill these roles. These range from technology and architectures through to navigations systems, sensors, computing architectures, and the human-machine interface. It enables students to put together combinations of systems in order to perform specific military roles. A complementary volume to the authors' previous title *Civil Avionics Systems*, this book covers a wide range of military aircraft roles and systems applications. It offers clear and concise system descriptions; includes case studies and examples from real life, current projects; and features numerous illustrations and photographs.

It is a valuable resource for students of aerospace engineering as well as practitioners in the field of aerospace who wish to extend their knowledge.



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## **Military Avionics Systems (AIAA Education) By Ian Moir Bibliography**

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## **Editorial Review**

### **Review**

"...an extremely comprehensive book which, successfully, covers this complex subject in great depth."  
(*RAes- Aerospace International*, October 2006)

### **From the Back Cover**

#### **Ian Moir and Allan Seabridge**

Military avionics is a complex and technically challenging field which requires a high level of competence from all those involved in the aircraft design and maintenance. As the various systems on board an aircraft evolve to become more and more inter-dependent and integrated, it is becoming increasingly important for designers to have a holistic view and knowledge of aircraft systems in order to produce an effective design for their individual components and effectively combine the systems involved.

This book introduces the military roles expected of aircraft types and describes the avionics systems required to fulfil these roles. These range from technology and architectures through to navigations systems, sensors, computing architectures and the human-machine interface. It enables students to put together combinations of systems in order to perform specific military roles.

- Sister volume to the authors' previous successful title 'Civil Avionics Systems'
- Covers a wide range of military aircraft roles and systems applications
- Offers clear and concise system descriptions
- Includes case studies and examples from current projects
- Features full colour illustrations detailing aircraft display systems

***Military Avionics Systems*** will appeal to practitioners in the aerospace industry across many disciplines such as aerospace engineers, designers, pilots, aircrew, maintenance engineers, ground crew, navigation experts, weapons developers and instrumentation developers. It also provides a valuable reference source to students in the fields of systems and aerospace engineering and avionics.

### **About the Author**

Ian Moir BSc, CEng, FRAeS, FIEE has over 40 years' experience in the aerospace industry. He served 20 years in the Royal Air Force as an Engineering Cadet/Officer, retiring with the rank of Squadron Leader. He then went on to work for 18 years at Smiths Industries, Cheltenham, UK. He is now very much in demand as a highly respected international aerospace consultant, operating in the areas of aircraft electrical and utilities systems and avionics.

Allan Seabridge BA, MPhil is Chief Flight Systems Engineer at BAE SYSTEMS. With over 30 years' experience in the aerospace industry, his work has included avionics on a wide range of aircraft. Allan divides his time between Europe and the USA. This experience gives him an insight into world-wide developments in all aspects of system engineering capability. He is also keen to encourage a fuller understanding of integrated engineering systems.

## **Users Review**

### **From reader reviews:**

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