



Military Avionics Systems

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DESCRIPTION

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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

After 20 years in the Royal Air Force, **Ian Moir** 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 broad 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 implementations. He has a special interest in fostering training and education in aerospace engineering.

Allan Seabridge is 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 included avionics on the Nimrod MRA 4 and 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.

SERIES

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