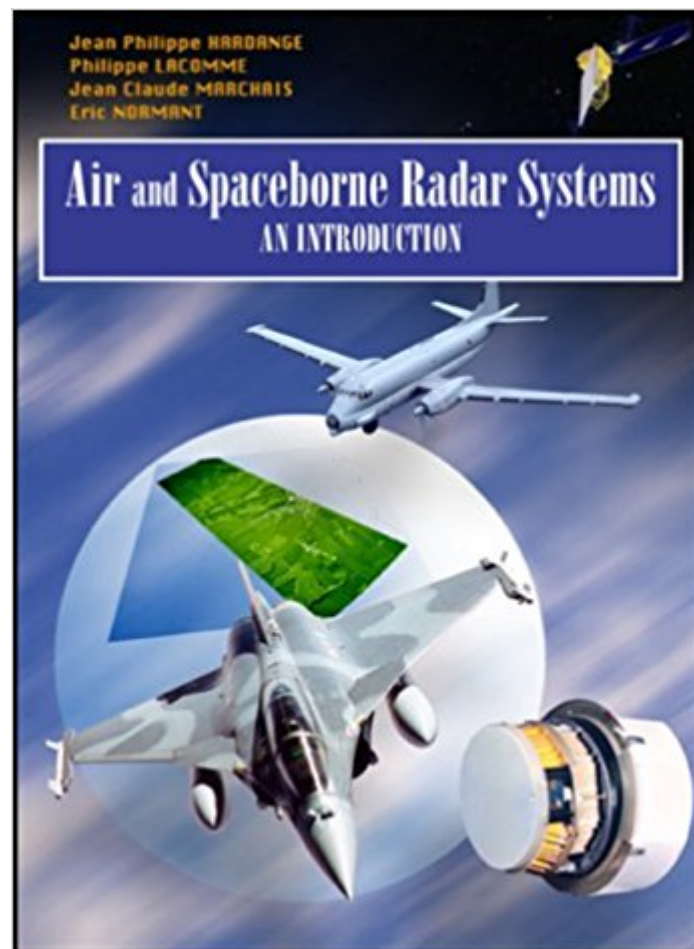


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Air And Spaceborne Radar Systems: An Introduction (Spie Press Monograph)



Synopsis

A practical tool on radar systems that will be of major help to technicians, student engineers and engineers working in industry and in radar research and development. The many users of radar as well as systems engineers and designers will also find it highly useful. Also of interest to pilots and flight engineers and military command personnel and military contractors. "This introduction to the field of radar is intended for actual users of radar. It focuses on the history, main principles, functions, modes, properties and specific nature of modern airborne radar. The book examines radar's role within the system when carrying out its assigned missions, showing the possibilities of radar as well as its limitations. Finally, given the changing operational requirements and the potential opened up by modern technological developments, a concluding section describes how radar may evolve in the future. The authors review the current state of the main types of airborne and spaceborne radar systems, designed for specific missions as well as for the global environment of their host aircraft or satellites. They include numerous examples of the parameters of these radars. The emphasis in the book is not only on a particular radar technique, but equally on the main radar functions and missions. Even if a wide range of techniques are described in this book, the focus is on those which are connected to practical applications.

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engineers working in industry and in radar research and development. The many users of radar as well as systems engineers and designers will also find it highly useful. Also of interest to pilots and flight engineers and military command personnel and military contractors.

Philippe Lacomme is a Senior Radar Designer with Thomson-CSF Detexis Company. He is the Technical Director of the Radar Unit, which is in charge of developing and producing airborne radar systems for Rafale aircraft, the Mirage 2000, and others. Professor Lacomme has taught radar theory at Thomson-CSF and in many universities and schools, and has lectured at numerous international conferences. Jean-Claude Marchais was Technical Director of Thomson-CSF Radars & Contre-Mesures until his retirement. During his long career, he was involved in the development of radar systems for the Mirage aircraft family, a lecturer on radar at the ESME-Sudria engineering school, and the author of three books, including a highly successful one on operational amplifiers. Jean-Philippe Hardange joined Thomson-CSF in 1982 and has worked there as a radar engineer on all types of airborne radar. In 1996 he was head of the Airborne Radar Engineering Department. Later he launched the SOSTAR project of ground surveillance for NATO. He is now leading the Airborne Systems Engineering Department at Thomson-CSF. Eric Normant works as a research scientist at Thomson-CSF Detexis and is head of the airborne reconnaissance radar team. He has worked on SAR processing and system engineering. He holds a dozen patents in the field of SAR and teaches general radar theory and SAR.

Good book Makes a difficult topic easy to understand. Colon in some of the diagrams would make it even better

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