

Radar Principles

Radar Principles for the Non-Specialist Radar Principles Radar: Principles, Technology, Applications Radar Principles of Radar Radar Systems Principles Radar Systems Principles of Modern Radar Radar Principles for the Non-Specialist Airborne Radar Principles of Modern Radar Principles of Radar ... Third Edition, Etc Radar Design Principles Fundamental Principles of Radar Radar Principles Radar Principles of radar by members of the staff of the Radar School Massachusetts Institute of Technology Principles of High-resolution Radar Radar Principles Radar Systems John C. Toomay Peyton Z. Peebles Edde Byron Edde Massachusetts Institute of technology. Radar School (Cambridge). Harold R. Raemer Wen-Qin Wang William L. Melvin J.C. Toomay Donald J. Povejsil Massachusetts Institute of Technology. Radar School Fred E. Nathanson Habibur Rahman Peebles F. Jonathan Mivec [Anonymous AC07744750] Nadav Levanon Wen-Qin Wang

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what this book is this book is about radar it will teach you the essentials of radar the underlying principles it is not like an engineering handbook which provides detailed design equations without explaining either derivation or rationale it is not like a graduate school textbook which may be abstruse and esoteric to the point of incomprehensibility and it is not like an anthology of popular magazine articles which may be gaudy but superficial it is an attempt to distill the very complex rich technology of radar into its fundamentals tying them to the laws of nature on one end and to the most modern and complex systems on the other who it's for if your work requires you to supervise or meet as coequals with radar systems engineers or designers this book will allow you to understand them to question them intelligently and perhaps to provide them with a perspective a dispassionate yet competent view that they lack if you are trained in another discipline but have been made the manager of a radar project or a system program that has one or more radars as sub systems this book will provide you with the tools you need not only to give your team members confidence but also to make a substantive technical contribution yourself

in planning a radar system having the proper mathematical modeling of propagation effects clutter and target statistics is essential radar systems principles provides a strong theoretical basis for the myriad of formulas and rules of thumb required for analysis conceptual design and performance evaluation of radar systems mathematical derivations of formulas commonly used by radar engineers are presented with detailed discussions of the assumptions behind these expressions and their ranges of validity these principles are used in a wide range of radar applications radar systems principles makes it easy to understand the steps in calculating various formulas and when and how these formulas are used a set of problems is provided for each chapter enabling you to check your

progress in applying the principles discussed in each section of the text there are more than 170 figures illustrating key concepts numerous references to well known books on radar for coverage of practical design issues and other specialized topics are given radar systems principles is an ideal textbook for advanced undergraduates and first year graduate students and also makes an excellent vehicle for self study by engineers wishing to enhance their understanding of radar principles and their implication in actual systems

this is a comprehensive book about modern radar techniques describing systems and methods at the college and graduate student level it covers radar principles radar technology and the application of that technology this book starts with radar cross section rcs simulation and radar frequency synthesisers describes a manipulation of rcs with plasma and develops a millimetre wave frequency synthesiser for radar systems next multi pulse performance evaluation of adaptive detection of fluctuation radar targets and a c band radar over an urban area are introduced followed by the interpolation of the radial velocity data from coastal hf radars at the finish three dimensional synthetic aperture radar sar mechanisms and imaging is introduced followed by gpu based sar raw data simulation for a complex three dimensional scene this book will be of practical use to engineers technicians planners specifiers and managers who work with radar systems and with systems containing radars and radar technology

this updated edition provides a solid understanding of radar fundamentals and applications with far less of the mathematical rigor and technical data presented in engineering books for specialists

the important and fascinating topics of radar enjoy an extensive audience in industry and government but deserve more attention in undergraduate education to better prepare graduating engineers to meet the demands of modern mankind radar is not only one of the major applications of electronics and electromagnetic communications but it is also a mature scientific discipline with significant theoretical and mathematical foundations that warrant an intellectual and educational challenge fundamental principles of radar is a textbook providing a first exposure to radar principles it provides a broad concept underlying the basic principle of operations of most existing radar systems and maintains a good balance of mathematical rigor to convince readers without losing interest the book provides an extensive exposition of the techniques currently being used for radar system design analysis and evaluation it presents a comprehensive set of radar principles including all features of modern radar applications with their underlying derivations using simple mathematics coverage is limited to the main concepts of radar in order to present them in a systematic and organized fashion topics are treated not as abstruse and esoteric to the point of incomprehensibility but the very complex and rich technology of radar is distilled into its fundamentals the author s emphasis is on clarity without sacrificing rigor and completeness thus making the book broad enough to satisfy a variety of backgrounds and interests thorough documentation provides an unusual degree of completeness for a textbook at this level with interesting and sometimes thought provoking content to make the subject even more appealing key features covers a wide range of topics in radar systems includes examples and exercises to reinforce the concepts presented and explain their applications provides self contained chapters useful for readers seeking selective topics provides broad concepts underlying the basic principles of operations of most types of radars in use today includes documentation to lead to further reading of interesting concepts and applications

an advanced treatment of the main concepts of radar systematic and organized it nicely balances readability with mathematical rigor many techniques and examples have been chosen from the radar industry rayleigh fluctuating targets are used as they yield simple expressions for the probability of detection and others for their pedagogical value costas

signals lead the coded radarsignals because their ambiguity function can be intuitively deduced ordered statistics is covered in more depth than other far techniques because its performance can be obtained analytically without resorting to simulation methods contains many exercises an instructor's manual presenting detailed solutions to all the problems in the book is available from the wiley editorial department

radar systems technology principles and applications is a comprehensive book about modern radar techniques describing systems and methods at the college and graduate student level it covers radar principles radar technology and the application of that technology this book starts with radar cross section rcs simulation and radar frequency synthesizers describes a manipulation of rcs with plasma and develops a millimeter wave frequency synthesizer for radar systems next multipulse performance evaluation of adaptive detection of fluctuation radar targets and a c band radar over an urban area are introduced followed by the interpolation of the radial velocity data from coastal hf radars at the finish three dimensional synthetic aperture radar sar mechanisms and imaging is introduced followed by gpu based sar raw data simulation for a complex three dimensional scene this book will be of practical use to engineers technicians planners specifiers and managers who work with radar systems and with systems containing radars and radar technology

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Conclusion

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