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Join our Telegram Group & Share your contents, doubts, knowledge with other Students/Graduates Book Review Introduction to Radar Systems Third Edition Edited by Merrill Skolnik McGraw-Hall, New York, New York, USA 2001,772 pages, Hard cover, ISBN 0-07-290980-3 Introduction to Radar Systems, by Merrill Skolnik, is universally recognized as the classical reference in the field. This review is of the third edition of the text; the first edition was printed in 1962 and covers the basic concepts needed to understand radar systems, radar signal processing, the phenomenology of radar signals and clutter, and the underlying systems technology. This third edition represents an extensive revision of classic text. The material presented is based on a one-year graduate level course and also serves as an excellent reference. The first six chapters cover the fundamentals of radar systems and signal processing. Chapter 1, an introduction to concepts, nomenclature, history and the famous radar range equation: a survey of radar and *raison d'être*; Chapter 2 presents the details of the radar range equation and the parameters that impact radar performance; Chapter 3 introduces moving target indication (MTI) and pulse-Doppler radar; Chapter 4 extends the surveillance mission to consider tracking radar; Chapter 5 provides a summary of statistical detection theory, covering the important topics of matched filtering, detection criteria and detector structure, and constant false alarm rate (CFAR) receivers; and Chapter 6 details the exploitation of radar signals, covering radar measurements, the ambiguity diagram analysis of radar waveforms, the use of pulse compression for high range resolution, and target recognition for discriminating between different target signatures in various levels of fidelity. The next two chapters introduce the phenomenology of radar clutter and radar signal propagation: Chapter 7 describes the surface-clutter radar equation, statistical models for land, sea, and weather clutter, and the detection of targets when radar sensitivity is clutter-limited; Chapter 8 presents the theory of the propagation of radar waves, extending the free-space propagation model used in the earlier forms of the radar range equation; topics such as forward scattering, refraction, ducting, diffraction, attenuation, *n*, backscatter, and external noise are considered. Chapters 9, 10, and 11 consider the technology utilized in radar antennas, transmitters, and receivers, respectively. Chapter 9, the longest in the book, covers antenna technology. IEEE AES S. wtens Magazine, October 2001 Radar antenna functions are explained, and the antenna parameters and radiation properties are discussed. Reflector antennas, mechanically steered planar arrays, and electrically steered phased arrays are covered, replacing what were two chapters in the second edition. Chapter 10 describes transmitter technology, to include linear-beam power tubes, solid-state RP sources, magnetrons, and cross-field amplifiers. Chapter 11 discusses receiver technology, detailing the receiver noise figure, superheterodyne receivers, duplexers, and displays. The book is very well-written and comprehensive. Each chapter includes problems and questions that can be used either in a classroom environment or for self-study. The author recommends a one-term course covering Chapters 1-4 and most of Chapter 8. A second-term could then cover Chapters 5-7 and 9, with Chapters 10 and 11 discussed as time permits. The printing I reviewed had many errors, but included an errata sheet that seemed to catch nearly everything I discovered in reading the material. Every author has to make decisions and balance tradeoffs in determining what material to include in a text that covers such a broad topic. I was somewhat disappointed by the removal of topics from the preceding edition that the author felt were unnecessary. The entire concept and description of bistatic radar has been removed, even though, historically, this played a major role in the development of radar. Also, I find the lack of discussion about synthetic aperture radar surprising, especially since this ranks with MTI and tracking radar in terms of the most popular applications of radar today. Lastly, I sorely miss the section on electronic counter-countermeasures, which I would have preferred to see extended in the new edition, instead of omitted. In conclusion, Introduction to Radar Systems, Third Edition, is an excellent and wide-ranging reference, well-suited to the student and practicing engineer, alike. I have had a copy of this book on my shelf for over a decade, and am looking forward to using this third edition to teach EE 5635, Radar Systems Analysis and Design, at Virginia Tech for the Fall semester. - J. Scott Goldstein 19 Join our Telegram Group & Share your contents, doubts, knowledge with other Students/Graduates Share the publicationSave the publication to a stackLike to get better recommendationsThe publisher does not have the license to enable download

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