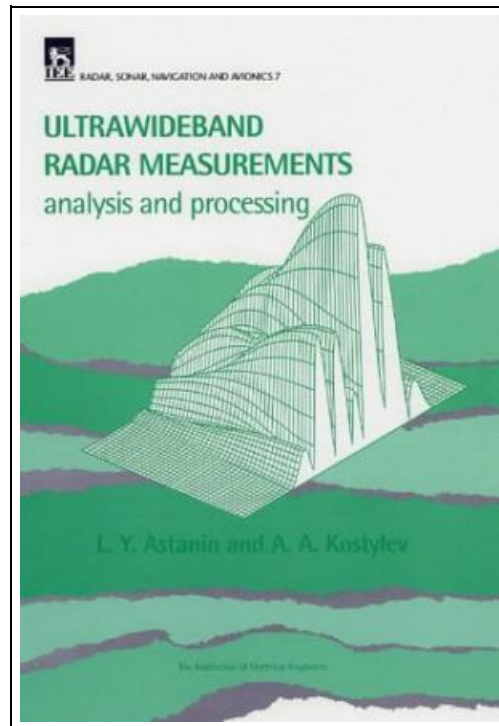


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Institution of Engineering and Technology, United Kingdom, 1999. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Interest in the applications of ultrawideband (UWB) radar systems is increasing rapidly all over the world. This is evident from the number of monographs recently published on the subject and from the many papers presented at international conferences on the general problems involved in UWB radar and on its promising new applications. Conventional (classical) methods seem to have exhausted their potential and studies in the field are undergoing a profound change. This book presents some of the novel approaches to radar system analysis now being investigated. A good source of information on UWB signals is their structural analysis in the time domain. This allows a greater understanding of the specific features of UWB radar systems, such as the properties of receiving and transmitting antennas, and various characteristics of near- and far-range target scattering fields. It is shown how the systematic application of numerical procedures can provide new results in the evaluation of UWB radar target responses. The authors do not try to cover all of the possible solutions to the problem of multidimensional representation of target responses; rather they aim to give a general understanding of the techniques of confluent analysis, computer holography and adaptive synthesis of antenna apertures. These methods have great potential for solving conventional radar problems in target detection and recognition, and they are sure to stimulate the use of UWB signals in many fields such as subsurface probing and ecological monitoring.



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