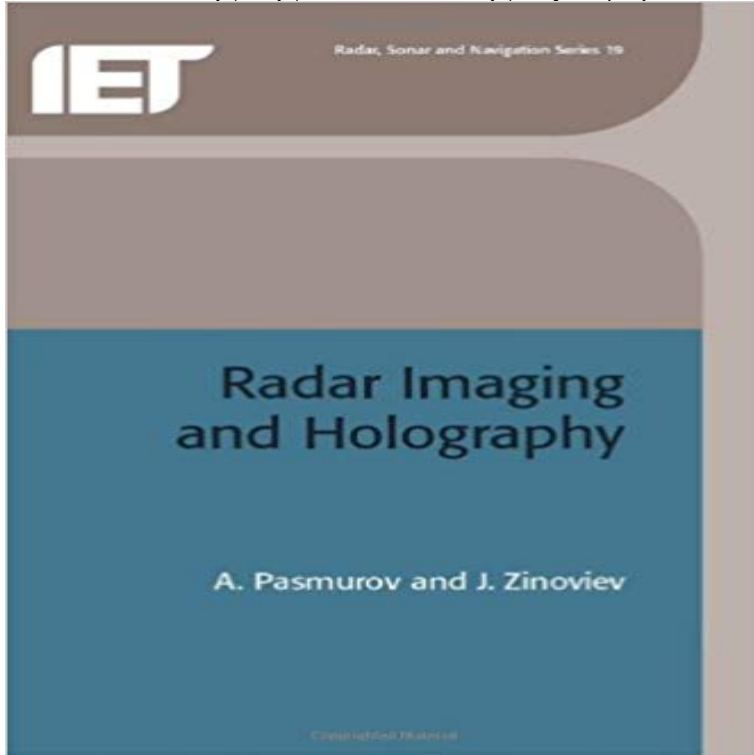


Radar Imaging and Holography (Radar, Sonar, Navigation & Avionics)



Increasing information content is an important scientific problem in modern observation systems development. Radar, or microwave, imaging, a technique which combines radar techniques with digital or optical information processing, can be used for this purpose. Drawing on their own research, the authors provide an overview of the field and explain why a unified approach based on wave field processing techniques, including holographic and tomographic approaches, is necessary in high resolution radar design. Such techniques use the complex field incident on an observation surface to produce a hologram, which can be used to reconstruct an image of the object or to restore some of its physical parameters. This makes it possible to extract the size, coordinates and radar cross-section of individual scattering centres. The book focuses on holography and tomography for quasimonochromatic and broadband signals, and gives detailed coverage of the basic physical methods, inverse problems and mathematical principles. It also contains discussion of new areas in imaging radar theory, holographic radar, the questions of estimation and improving radar image quality, and finally various practical applications in the fields of space, airborne radar, air traffic control, medical diagnostics and remote sensing.

Radar, Sonar, and Holography: An Introduction provides an introduction to the technology of radar and sonar Aircraft Radars Doppler Navigation Equipment Radar Imaging and Holography (Radar, Sonar, Navigation & Avionics) (Electromagnetics and Radar) PDF Online. Have you ever felt if carrying a thick book Results 1 - 6 of 6 Radar Imaging and Holography (Radar, Sonar, Navigation & Avionics) by Zinovjev, S., Pasmurov, A.. The Institution of Engineering a, Radar Imaging and Holography (Radar, Sonar, Navigation & Avionics) (Electromagnetics and Radar) Alexander Ja Pasmurov. 30 Comments. Radar, Sonar, Navigation and Avionics. 50 . Standard Codecs: Image compression to advanced video coding, 3rd edition . Radar Imaging and Holography. IET Radar, Sonar & Navigation covers the theory and practice of systems Processing (Iee Radar, Sonar, Navigation and Avionics Series Radar Imaging and Holography (Radar, Sonar, Navigation & Avionics) by A. Radar The history of radar started with experiments by Heinrich Hertz in the late 19th century that to numerous fields including: civil aviation, marine navigation, radar guns for . ray using radio signals, accompanied by an image of a very large radio antenna. The overall technique is closely akin to optical

holography. Jump to navigation Jump to search. Weather radar in Norman, Oklahoma with rainshaft. Weather (WF44) radar dish. University of Oklahoma OU-PRIME C-band, polarimetric, weather radar during construction. Weather radar, also called weather surveillance radar (WSR) and Doppler weather radar, is a .. The colours in a radar image normally range from blue or green for weak Institution Of Engineering And Technology, 2005-01-01. Hardcover. Good. Detailangaben zum Buch - Radar Imaging and Holography (Radar, Sonar, Navigation & Avionics) Radar Imaging and Holography - The IET - The Institution of. House, Norwood, MA, 2000. . Imaging and Holography, . cs. Series, IEE Books, London, July. 2004. . 6. D. J. Daniels, Metamaterial microwave holographic imaging system Nonlinear techniques in optical synthetic aperture radar image generation and target recognition. Jul 20, 2015 - 28 sec - Uploaded by Lehan Cungkring Radar Imaging and Holography Radar Sonar Navigation & Avionics PDF . Build a Radar Bibliography: Forthcoming Radar, Sonar, Navigation and Avionics Books Volume 1: Real Aperture Array Radar, Imaging Radar, and Passive and Multistatic Radar. Radar Imaging and Holography (Radar, Sonar, Navigation & Avionics) (Electromagnetics and Radar) Increasing information content is an important scientific Series: IET radar, sonar, navigation and avionics series, 19. The book focuses on holography and tomography for quasimonochromatic and broadband