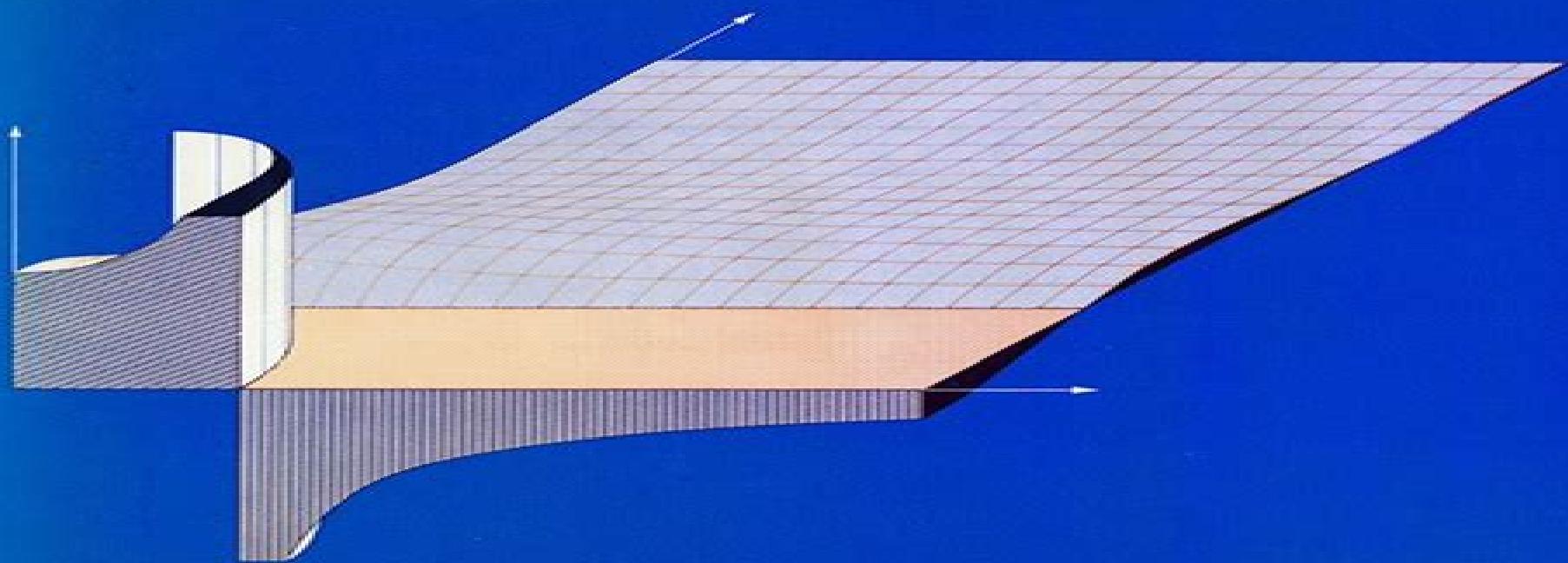


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SYNTHESIS OF PLANAR ANTENNA SOURCES

DONALD R. RHODES



Synthesis Of Planar Antenna Sources

Richard Henry Clarke, John Brown

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Synthesis of Planar Antenna Sources Donald R. Rhodes,1974 Antenna Handbook Y.T. Lo,S. W. Lee,2013-06-29

Techniques based on the method of modal expansions the Rayleigh Stevenson expansion in inverse powers of the wavelength and also the method of moments solution of integral equations are essentially restricted to the analysis of electromagnetic radiating structures which are small in terms of the wavelength It therefore becomes necessary to employ approximations based on high frequency techniques for performing an efficient analysis of electromagnetic radiating systems that are large in terms of the wavelength One of the most versatile and useful high frequency techniques is the geometrical theory of diffraction GTD which was developed around 1951 by J B Keller 1 2 3 A class of diffracted rays are introduced systematically in the GTD via a generalization of the concepts of classical geometrical optics GO According to the GTD these diffracted rays exist in addition to the usual incident reflected and transmitted rays of GO The diffracted rays in the GTD originate from certain localized regions on the surface of a radiating structure such as at discontinuities in the geometrical and electrical properties of a surface and at points of grazing incidence on a smooth convex surface as illustrated in Fig 1 In particular the diffracted rays can enter into the GO shadow as well as the lit regions Consequently the diffracted rays entirely account for the fields in the shadow region where the GO rays cannot exist

The Handbook of Antenna Design Alan W. Rudge,1986 These books present the fundamental background theory and analytical techniques of antenna design dealing with a very wide range of antenna types operating from very low frequencies to millimeter waves

Journal of Research of the National Bureau of Standards United States. National Bureau of Standards,1960 **Antennas and Radiowave Propagation** Robert E. Collin,1985

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Antenna Theory and Practice Rajeswari Chatterjee,1988 New Technical Books New York Public Library,1975

Journal of the Institution of Electronics and Telecommunication Engineers ,1989 Diffraction Theory and Antennas Richard Henry Clarke,John Brown,1980 **International Conference on Antennas and Propagation** ,1985

U.S. Government Research & Development Reports ,1971 Fifth International Conference on Antennas and Propagation (ICAP 87), 30 March-2 April 1987, University of York ,1987 **Tunable Micromachined Microwave Devices**

Arturo A. Ayón,1996 Antenna Theory and Design Warren L. Stutzman,Gary A. Thiele,1998 Highly respected authors have reunited to update the well known 1981 edition which is still hailed as one of the best in its field This edition includes recent antenna innovations and applications It features a succinct treatment of the finite difference time domain FDTD computational technique It is also the first text to treat physical theory of diffraction PTD **Television and Short-wave World** ,1975 The Engineer ,1975 **Advances in Electronics and Electron Physics** ,1984

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