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He was the editor of the "Antenna Engineering Handbook" and president of Jasik Laboratories in Westbury, L.1., consulting antenna engineering organization that he founded.

Henry Jasik, 58, of Westbury, Specialist in Design of Antenna

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In fact, doubling an antenna's size almost never doubles antenna gain (3dB). I've added graphs from Jasik's Antenna Engineering Handbook throughout this article. These graphs show theoretical maximum gain of short, lossless, dipole elements when arranged end-to-end (Collinear) or parallel above or next to each other (stacked broadside).

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The gold-standard reference on the design and application of classic and modern antennas—fully updated to reflect the latest advances and technologies This new edition of the “bible of antenna engineering” has been updated to provide start-to-finish coverage of the latest innovations in antenna design and application. You will find in-depth discussion of antennas used in modern communication systems, mobile and personal wireless technologies, satellites, radar deployments, flexible electronics, and other emerging technologies, including 5G, terahertz, and wearable electronics. Antenna Engineering Handbook, Fifth Edition, is bolstered by real-world examples, hundreds of illustrations, and an emphasis on the practical aspects of antennas. Featuring 60 chapters and contributions from more than 80 renowned experts, this acclaimed resource is edited by one of the world's leading antenna authorities. This edition features all of the classic antenna types, plus new and emerging designs, with 13 all-new chapters and important updates to nearly all chapters from past editions. Antenna Engineering Handbook, Fifth Edition, clearly explains cutting-edge applications in WLANs, automotive systems, PDAs, and handheld devices, making it an indispensable companion for today's antenna practitioners and developers. Coverage includes: □Antenna basics and classic antennas□Design approaches for antennas and arrays□Wideband and multiband antennas□Antennas for mobile devices and PDAs, automotive applications, and aircraft□Base station and smart antennas□Beamforming and 5G antennas□Millimeter-wave and terahertz antennas□Flexible, wearable, thin film, origami, dielectric, and on-chip antennas□MIMO antennas and phased arrays□Direction-finding and GPS antennas□Active antennas□Low-profile wideband antennas□Nanoantennas□Reflectors and other satellite and radio-telescope antennas□Low-frequency, HF, VHF, UHF, ECM, and ESM antennas□Impedance-matching techniques and material characteristics□Metastructured and frequency selective surfaces□Propagation and guided structures□Computational techniques and toolsets□Indoor and outdoor measurements

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.

A practical book written for engineers who design and use antennas. The author has many years of hands on experience designing antennas that were used in such applications as the Venus and Mars missions of NASA. The book covers all important topics of modern antenna design for communications. Numerical methods will be included but only as much as are needed for practical applications.

This is the first textbook that contains a holistic treatment of antennas both for traditional antennas mounted on masts (Line-of-Sight antenna systems) and for small antennas used on modern wireless devices such as smart phones being subject to signal variations (fading) due to multipath propagation. The focus is on characterization, as well as describing classical antennas by modern complex vector theory - thereby linking together many disciplines such as electromagnetic theory, classical antenna theory, wave propagation, and antenna system performance. Overall, this book represents a rethinking of the way basic antenna theory is presented. The book contains many references to important old and new papers and books on the analysis and design of the most useful antenna types, for the most interested readers.

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