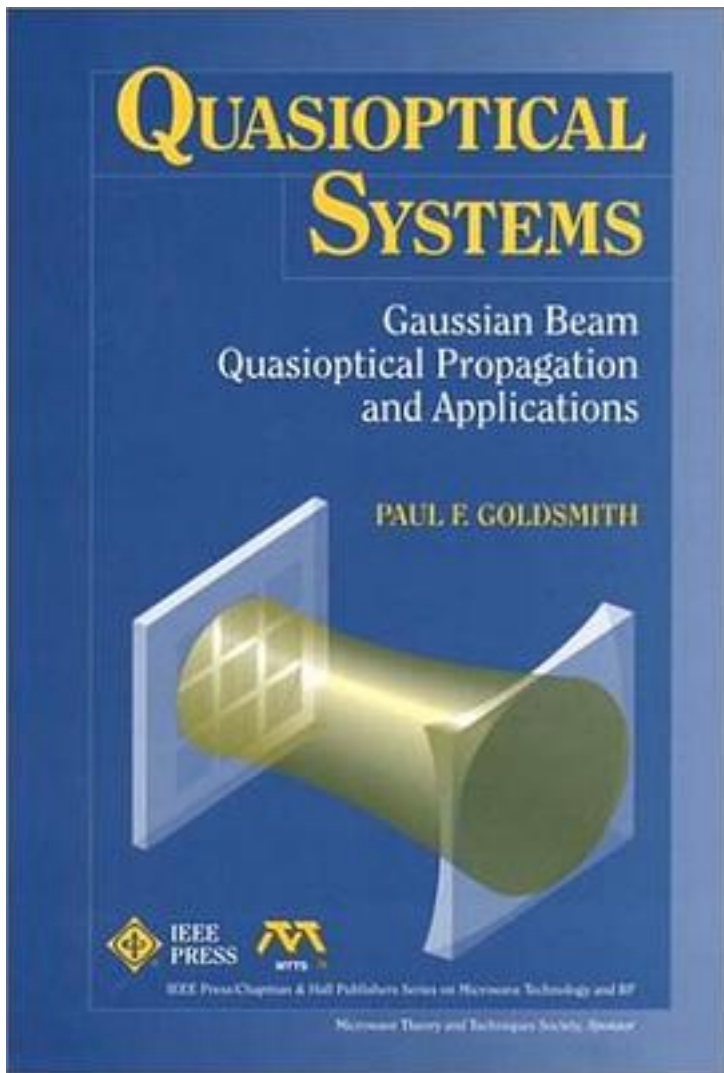# Quasioptical Systems

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著者:Paul F. Goldsmith

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"The increasing commercial use of millimeter wavelengths for remote sensing, communications, and radar systems has driven the need for new low-cost, high performance systems, and with it, the need for quasioptical systems.Combining a general introduction to Gaussian beams and quasioptical propagation with practical applications, QUASIOPTICAL SYSTEMS provides a state-of-the-art treatment of the design of low-loss, broadband systems at microwave to submillimeter wavelegnths. the approach presented involved utilizing a beam with a Gaussian distribution of field strength perpendicular to its axis, which in turn propagates in a simple predictable fashion. Features include: A Convenient summary of Gaussian beam propagation formulas; Extensive coverage of present-day quasioptical components and their performance; In-depth coverage of dielectric material uses at millimeter and submillimeter wavelengths; An analysis of lenses and mirrors together with design techniques; and much more This book will be of key interest to systems designers, antenna engineers, communications systems engineers, and researchers."

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