



# Principles of Optics: Electromagnetic Theory of Propagation, Interference and Diffraction of Light

*By Max Born, Emil Wolf*

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Principles of Optics is one of the classic science books of the twentieth century, and probably the most influential book in optics published in the past forty years. This edition has been thoroughly revised and updated, with new material covering the CAT scan, interference with broad-band light and the so-called Rayleigh-Sommerfeld diffraction theory. This edition also details scattering from inhomogeneous media and presents an account of the principles of diffraction tomography to which Emil Wolf has made a basic contribution. Several new appendices are also included. This new edition will be invaluable to advanced undergraduates, graduate students and researchers working in most areas of optics.

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"Principles of Optics is a great, rigorous, ponderous, unwavering mathematical tract that deals with a welath of topics...a great book, the seventh edition is a fine one, and as I said, if you work in the field you probably should own it." Physics Today

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#### From the Back Cover

*Principles of Optics* is one of the classic science books of the twentieth century. It presents optics deductively as a system based on Maxwell's equations. It deals with those optical phenomena that can be described with the help of a continuous distribution of matter and aims at giving a complete picture of our knowledge of optics as a whole.

This standard reference continues to be invaluable to advanced undergraduates, graduate students and researchers working in most areas of optics.

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