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Nota di contenuto	Introduction -- Related techniques -- Theoretical background -- Formation of diffractive Images -- ANN based methodology -- System design and experiment setup -- Experimental results and analysis -- Summary.
Sommario/riassunto	This book presents a unique methodology of precious and original scientific work in optical microscopy that is scarce to be found elsewhere. It covers modern 3D optical microscopy to provide a solid understanding of microscopic optics and imaging theory. With an inspiring development in diffractive image microscopy and ANN-based reverse mapping modeling, this is an invaluable book for precision optics, precision metrology, optical testing, biomedical engineering, and physics students or staff taking R&D on optical microscopy, as well as advanced undergraduates, professionals, and researchers looking for an accessible introduction to the field.