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Colin J.R Sheppard, Peter Torok

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### High Aperture Focusing of EM Waves and Applications in **Optical Microscopy (Series in Optics and Optoelectronics)**

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High aperture focusing is essential to many current high profile applications, including optical lithography, optical data storage techniques, and medical optics. High Aperture Focusing of EM Waves and Applications in Optical Microscopy covers the theory of high aperture focusing and problems associated with the theory and its applications. It brings together a huge amount of research previously only available through extensive searching of the literature and some that has not been previously available in English. Topics discussed include vectorial and scalar theories of diffraction, computational methods, high aperture beam propagation, and aberrations in high aperture optical systems, dielectric slabs, and stratified media. The book is intended both for optical microscopists and more generally for scientists working in the areas of optical lithography, optical data storage (including DVDs), and medical optics, i.e., where high aperture focusing is an integral part of the problem. The book is also designed to be suitable for both undergraduate students attending special modules on optics and postgraduate students involved with focusing and physical optics in general.



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