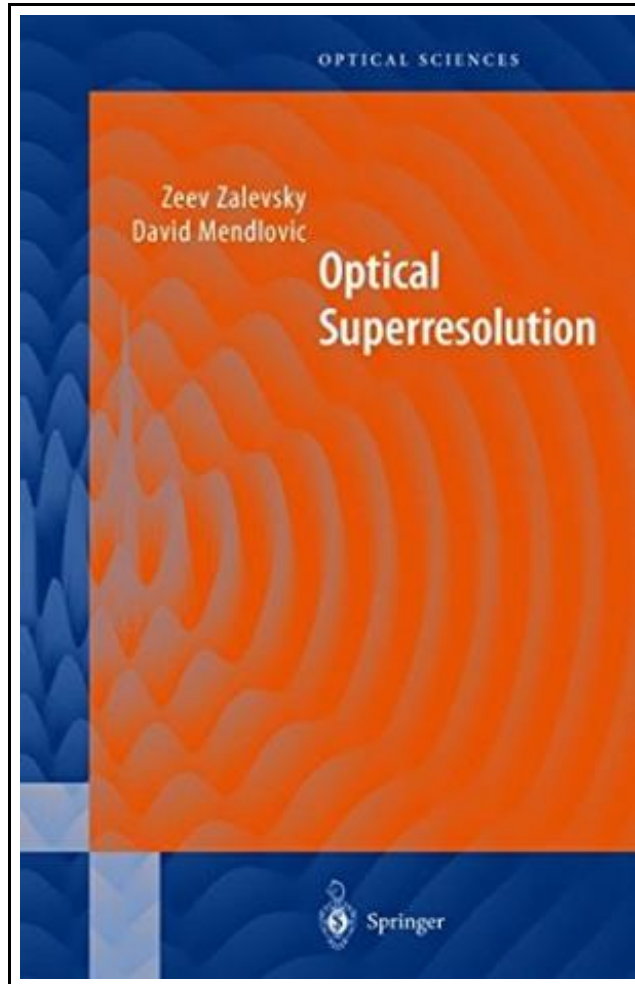


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Springer New York, 2003. Hardback. Book Condition: New. 236 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This book explores ways to improve the classical resolution limits of an imaging system. Various approaches dealing with exceeding the limitations of the lens aperture, the pixel size in the camera, and the noise generated at the detector are presented and analyzed. The book starts by presenting the theoretical foundations and by introducing the background and the related terms and then proceeds into the desired system analysis. Despite the fact that the book tends to provide the mathematical background required to follow the presented derivations, it assumes that the reader has acquired a basic knowledge in optical Fourier processing. If this is not the case, we strongly advise using Goodman's book: Introduction to Fourier Optics as mandatory prereading material. The book is mainly intended for a graduated audience who may be researchers in an academy or engineers in the industry seeking information that may assist them in improving the performance of their electro-optical system design. The last chapter of the book is a more practical chapter that explores several industry-related examples and applications that may use the superresolution techniques in real industrial electro-optical systems. The most important feature of this book is its attempt to address an important subject that has not been addressed before, the subject of resolution and imaging, and to discuss techniques of how to exceed these classical limitations.



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