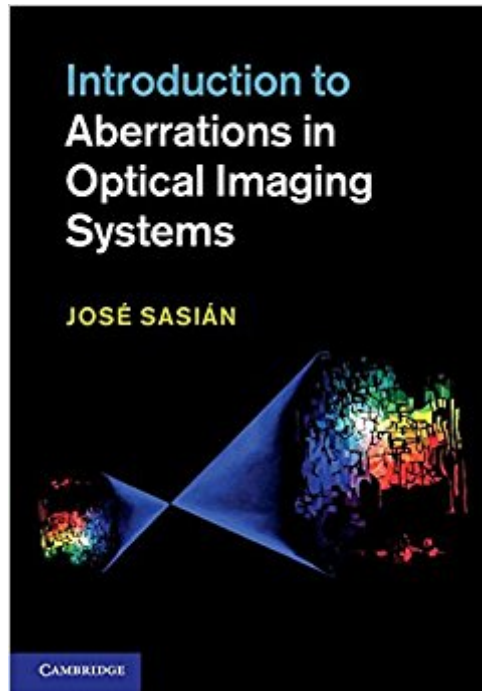




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Introduction To Aberrations In Optical Imaging Systems



Synopsis

The competent and intelligent optical design of today's state-of-the-art products requires an understanding of optical aberrations. This accessible book provides an excellent introduction to the wave theory of aberrations and will be valuable to graduate students in optical engineering, as well as to researchers and technicians in academia and industry interested in optical imaging systems. Using a logical structure, uniform mathematical notation and high quality figures, the author helps readers to learn the theory of optical aberrations in a modern and efficient manner. In addition to essential topics such as the aberration function, wave aberrations, ray caustics and aberration coefficients, this text covers pupil aberrations, the irradiance function, aberration fields and polarization aberrations. It also provides a historical perspective by explaining the discovery of aberrations and two chapters provide insight into classical image formation; these topics of discussion are often missing in comparable books.

Book Information

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Customer Reviews

"This book is about wave theory of aberrations and includes the complete mathematical theory of aberrations ... it is intended for graduate and PhD students in optical engineering, as well as researchers in academia and industry who are interested in design and analysis of optical imaging systems." Darko Vasiljevic, Optics and Photonics News

Accessible introduction to the theory of optical aberrations that will appeal to graduate students in

optical physics and engineering and to researchers and technicians in academia and industry. The author presents topics that are missing from related books, such as pupil aberrations, the irradiance function, aberration fields and polarization aberrations.

Best book on optical aberrations that I come across. The mathematical notation is superior to that of earlier texts, e.g. Welford's classic book on aberrations, and the ideas are expressed both clearly and efficiently.

In general this book deals with the subject of aberrations in a different way that appears in optics and imaging evaluation books. Optical system evaluations by OTF and MTF are given in the regular way. For those who intend to be optical engineers this is a good starting book.

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