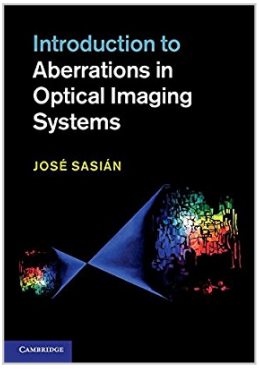

Introduction to Aberrations in Optical Imaging Systems

By José Sasián

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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.

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Editorial Review

Review
"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

About the Author
José Sasián is Professor of Optical Sciences at the College of Optical Sciences, University of Arizona. His research areas include aberration theory, optical design, light in gemstones, art in optics and optics in art, optical imaging and light propagation in general.

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