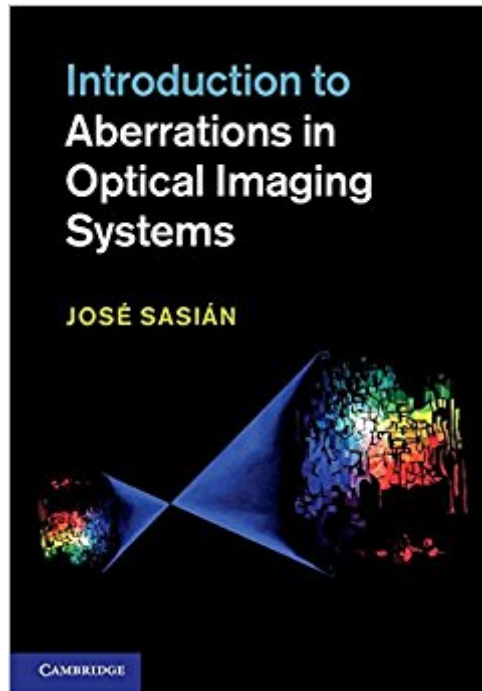




**Ebook Directory**  
the best source of ebook

The book was found

# 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

Hardcover: 284 pages

Publisher: Cambridge University Press; 1 edition (February 25, 2013)

Language: English

ISBN-10: 1107017521

ISBN-13: 978-1107006331

ASIN: 1107006333

Product Dimensions: 6.8 x 0.7 x 9.7 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars 2 customer reviews

Best Sellers Rank: #623,750 in Books (See Top 100 in Books) #69 in Books > Computers & Technology > Graphics & Design > Computer Modelling > Imaging Systems #220 in Books > Science & Math > Physics > Optics #21372 in Books > Textbooks > Science & Mathematics

## 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 evaluations 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.

[Download to continue reading...](#)

Introduction to Aberrations in Optical Imaging Systems Optical Thin Films: User's Handbook (Macmillan Series in Optical and Electro-Optical Engineering) Portal Hypertension: Diagnostic Imaging and Imaging-Guided Therapy (Medical Radiology / Diagnostic Imaging) Optical Design for Visual Systems (SPIE Tutorial Texts in Optical Engineering Vol. TT45) Aberrations In Black: Toward A Queer Of Color Critique (Critical American Studies) Petit Point: A Candid Portrait on the Aberrations of Science Resolution Enhancement Techniques in Optical Lithography (SPIE Tutorial Texts in Optical Engineering Vol. TT47) Electro-Optical Displays (Optical Science and Engineering) Handbook of Organic Materials for Optical and (Opto)Electronic Devices: Properties and Applications (Woodhead Publishing Series in Electronic and Optical Materials) Handbook of Optical and Laser Scanning, Second Edition (Optical Science and Engineering) optical communication and splicing: optical networks General Theory of Light Propagation and Imaging Through the Atmosphere (Springer Series in Optical Sciences) Monte Carlo Modeling for Electron Microscopy and Microanalysis (Oxford Series in Optical and Imaging Sciences) Adaptive Optics for Astronomical Telescopes (Oxford Series in Optical and Imaging Sciences) Principles of Radiographic Imaging: An Art and A Science (Carlton,Principles of Radiographic Imaging) Patient Care in Imaging Technology (Basic Medical Techniques and Patient Care in Imaging Technol) The Filmmaker's Guide to Digital Imaging: for Cinematographers, Digital Imaging Technicians, and Camera Assistants Ethical and Legal Issues for Imaging Professionals, 2e (Towsley-Cook, Ethical and Legal Issues for Imaging Professionals) Principles of Dental Imaging (PRINCIPLES OF DENTAL IMAGING ( LANGLAND)) Evidence-Based Imaging: Improving the Quality of Imaging in Patient Care

Contact Us

DMCA

Privacy

FAQ & Help