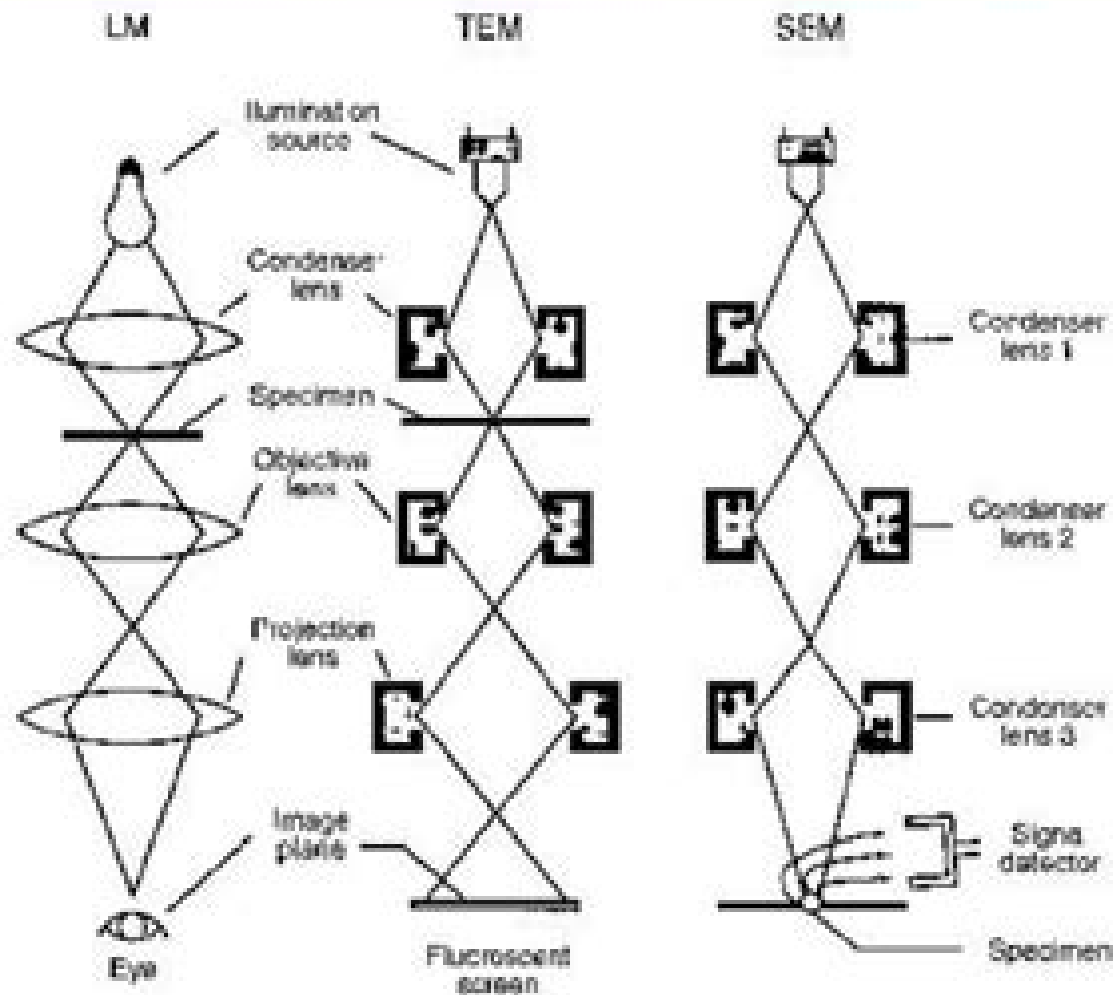


# Electron Optics



**FIGURE 6.19** Comparison of light microscope (LM) to transmission (TEM) and scanning (SEM) electron microscopes. (Reprinted with modifications from Postek, et al., 1980, *Scanning Electron Microscopy: A Student's Handbook*, Cold Research Industries, Inc., Burlington, VT.)

# Electron Optics

**Peter W. Hawkes, Erwin Kasper**



## Electron Optics:

Electron Optics O. Klemperer, M. E. Barnett, 1971 This 1971 third edition of Dr Klemperer's Electron Optics is concerned primarily with the experimental aspects of electron optics

Principles of Electron Optics Peter W. Hawkes, Erwin Kasper, 1996-04-24 Principles of Electron Optics Principles of Electron Optics, Volume 2 Peter W. Hawkes, Erwin Kasper, 2017-12-13 Principles of Electron Optics Applied Geometrical Optics Second Edition gives detailed information about the many optical elements that use the theory presented in Volume 1 electrostatic and magnetic lenses quadrupoles cathode lens based instruments including the new ultrafast microscopes low energy electron microscopes and photoemission electron microscopes and the mirrors found in their systems Wien filters and deflectors The chapter on aberration correction is largely new The long section on electron guns describes recent theories and covers multi column systems and carbon nanotube emitters Monochromators are included in the section on curved axis systems The lists of references include many articles that will enable the reader to go deeper into the subjects discussed in the text The book is intended for postgraduate students and teachers in physics and electron optics as well as researchers and scientists in academia and industry working in the field of electron optics electron and ion microscopy and nanolithography Offers a fully revised and expanded new edition based on the latest research developments in electron optics Written by the top experts in the field Covers every significant advance in electron optics since the subject originated Contains exceptionally complete and carefully selected references and notes Serves both as a reference and text

**Principles of Electron Optics, Volume 3** Peter W. Hawkes, Erwin Kasper, 2022-02-21 Principles of Electron Optics Volume Three Wave Optics discusses this essential topic in microscopy to help readers understand the propagation of electrons from the source to the specimen and through the latter and from it to the image plane of the instrument In addition it also explains interference phenomena notably holography and informal coherence theory This third volume accompanies volumes one and two that cover new content on holography and interference improved and new modes of image formation aberration corrected imaging simulation and measurement 3D reconstruction and more The study of such beams forms the subject of electron optics which divides naturally into geometrical optics where effects due to wavelength are neglected with wave optics considered Includes authoritative coverage of the fundamental theory behind electron beams Describes the interaction of electrons with solids and the information that can be obtained from electron beam techniques Addresses recent relevant research topics including new content on holography and interference new modes of image formation 3D reconstruction and aberration corrected imaging simulation and measurement

*Principles of Electron Optics* Peter W. Hawkes, Erwin Kasper, 2012-12-02 The three volumes in the PRINCIPLES OF ELECTRON OPTICS Series constitute the first comprehensive treatment of electron optics in over forty years While Volumes 1 and 2 are devoted to geometrical optics Volume 3 is concerned with wave optics and effects due to wave length Subjects covered include Derivation of the laws of electron propagation from Schrödinger's equation Image

formation and the notion of resolutionThe interaction between specimens and electronsImage processingElectron holography and interferenceCoherence brightness and the spectral functionTogether these works comprise a unique and informative treatment of the subject Volume 3 like its predecessors will provide readers with both a textbook and an invaluable reference source

*Electron Optics* P. Grivet,P. W. Hawkes,A. Septier,2013-10-22 Electron Optics Second English Edition Part I Optics is a 10 chapter book that begins by elucidating the fundamental features and basic techniques of electron optics as well as the distribution of potential and field in electrostatic lenses This book then explains the field distribution in magnetic lenses the optical properties of electrostatic and magnetic lenses and the similarities and differences between glass optics and electron optics Subsequent chapters focus on lens defects some electrostatic lenses and triode guns and magnetic lens models The strong focusing lenses and prism optics are also described This book will be useful to graduating students as well as to beginners who sometimes feel lost in the abundant specialized literature

**Principles of Electron Optics, Volume 1** Peter W. Hawkes,Erwin Kasper,2017-10-29 Volume one of Principles of Electron Optics Basic Geometrical Optics Second Edition explores the geometrical optics needed to analyze an extremely wide range of instruments cathode ray tubes the family of electron microscopes including the fixed beam and scanning transmission instruments the scanning electron microscope and the emission microscope electron spectrometers and mass spectrograph image converters electron interferometers and diffraction devices electron welding machines and electron beam lithography devices The book provides a self contained detailed modern account of electron optics for anyone involved with particle beams of modest current density in the energy range up to a few mega electronvolts You will find all the basic equations with their derivations recent ideas concerning aberration studies extensive discussion of the numerical methods needed to calculate the properties of specific systems and guidance to the literature of all the topics covered A continuation of these topics can be found in volume two Principles of Electron Optics Applied Geometrical Optics The book is intended for postgraduate students and teachers in physics and electron optics as well as researchers and scientists in academia and industry working in the field of electron optics electron and ion microscopy and nanolithography Offers a fully revised and expanded new edition based on the latest research developments in electron optics Written by the top experts in the field Covers every significant advance in electron optics since the subject originated Contains exceptionally complete and carefully selected references and notes Serves both as a reference and text

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*An Introduction to Electron Optics* Louis Jacob,1951      **Electron Optics** Pierre Grivet,Michel Yves Bernard,1972      Advances in Imaging and Electron Physics,2010-03-10 Advances in Imaging and Electron Physics merges two long running serials Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy This series features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science and digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all these domains Contributions from leading international scholars and industry experts Discusses hot topic areas and presents current and future research trends Invaluable reference and guide for physicists engineers and mathematicians

**Static and Dynamic Electron Optics** P. A. Sturrock,2016-02-04 Originally published in 1955 this textbook on electron optics was aimed at scientists already engaged in as well as new to this field of study      *Principles of Optics* Max Born,Emil

Wolf, 2019-12-19 Principles of Optics is one of the most highly cited and most influential physics books ever published and one of the classic science books of the twentieth century To celebrate the 60th anniversary of this remarkable book's first publication the seventh expanded edition has been reprinted with a special foreword by Sir Peter Knight The seventh edition was the first thorough revision and expansion of this definitive text Amongst the material introduced in the seventh edition is a section on CAT scans a chapter on scattering from inhomogeneous media including an account of the principles of diffraction tomography an account of scattering from periodic potentials and a section on the so called Rayleigh Sommerfeld diffraction theory This expansive and timeless book continues to be invaluable to advanced undergraduates graduate students and researchers working in all areas of optics      **Introduction to Electron Optics** V. E. Cosslett, 1946

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