

Aberration Corrected Imaging In Transmission Electron Microscopy

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aberration corrected imaging in transmission electron microscopy provides an

introduction to aberration corrected atomic resolution electron microscopy imaging in materials and physical sciences it covers both the broad beam transmission mode tem transmission electron microscopy and the scanning transmission mode stem scanning transmission electron microscopy the book is structured in three parts the first part introduces the basics of conventional atomic resolution electron microscopy imaging in tem and stem modes this part also describes limits of conventional electron microscopes and possible artefacts which are caused by the intrinsic lens aberrations that are unavoidable in such instruments the second part introduces fundamental electron optical concepts and thus provides a brief introduction to electron optics based on the first and second parts of the book the third part focuses on aberration correction it describes the various aberrations in electron microscopy and introduces the concepts of spherical aberration correctors and advanced aberration correctors including correctors for chromatic aberration this part also provides guidelines on how to optimize the imaging conditions for atomic resolution stem and tem imaging this second edition has been completely revised and updated in order to incorporate the very recent technological and scientific achievements that have been realized since the first edition appeared in 2010

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characterization of materials formerly methods in materials research provides comprehensive up to date coverage of materials characterization techniques including computational and theoretical methods as well as crystallography mechanical testing thermal analysis optical imaging and spectroscopy and more editor in chief elton kaufmann ph d is associate director of the strategic planning group at the argonne national laboratory and has published approximately 100 technical papers in refereed journals and books dr kaufmann has assembled leading experts from academia government and industry to provide a comprehensive up to date collection of methods used in the characterization of materials articles on various methods from standard to cutting edge periodic online updates to keep pace with latest developments a user friendly format that is easy and simple to search and navigate characterization of materials is a collection of characterization methods that is widely applicable in the wide and diverse field of materials research irrespective of discipline or ultimate application and with which researchers engineers and educators must have familiarity methods covered include general vacuum techniques x ray powder diffraction high strain rate testing deep level transient spectroscopy cyclic voltammetry extended x

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a thorough practical review of nuclear cardiology covering everything from when to refer and which test to prescribe to interpreting results updated with new and emerging techniques nuclear cardiology practical applications provides concise expert guidance on indications for nuclear cardiology procedures specification of tests and interpretation of results completely updated with the latest techniques and procedures this well illustrated guide is essential to clinicians who require a practical understanding of this specialty as well as trainees including cardiology fellows and radiology residents it is also a must have review for anyone seeking certification or recertification in nuclear cardiology features coverage of new and emerging techniques in nuclear medicine such as fatty acid and neurohumoral imaging the use of hybrid technology and cardiac positron emission tomographic pet imaging emphasis on indications for tests helps you decide which nuclear test is the best choice for a particular problem valuable perspective of nuclear cardiology s role in patient management review questions at the end of each chapter assure understanding of the material and prepare you for certification testing new chapters on quality initiatives in nuclear cardiology and the appropriate use of spect and pet procedures new extensive q a full color insert of radiograph images

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