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Advances in Electronics and Electron Physics (Advances in Imaging and Electron Physics) by Peter W. Hawkes, November 1991, Academic Press edition, Hardcover in English

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The Beginnings of Electron Microscopy presents the technical development of electron microscope. This book examines the mechanical as well as the technical problems arising from the physical properties of the electron. Organized into 19 chapters, this book begins with an overview of the history of scanning electron microscopy and electron beam microanalysis. This text then explains the applications and capabilities of electron microscopes during the war. Other chapters consider the classical techniques of light microscopy. This book presents as well the schematic outline of the preparation techniques for investigation of nerve cells by electron microscopy. The final chapter deals with the historical account of the beginnings of electron microscopy in Russia. This book is a valuable resource for scientists, technologists, physicists, electrical engineers, designers, and technicians. Graduate students as well as researcher workers who are interested in the history of electron microscopy will also find this book extremely useful.

Structural phase transitions, mechanical deformations, and the embryonic stages of melting and crystallization are examples of phenomena that can now be imaged in unprecedented structural detail with high spatial resolution, and ten orders of magnitude as fast as hitherto. No monograph in existence attempts to cover the revolutionary dimensions that EM in its various modes of operation nowadays makes possible. The authors of this book chart these developments, and also compare the merits of coherent electron waves with those of synchrotron radiation. They judge it prudent to recall some important basic procedural and theoretical aspects of imaging and diffraction so that the reader may better comprehend the significance of the new vistas and applications now afoot. This book is not a vade mecum - numerous other texts are available for the practitioner for that purpose.

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