



Materials and Processes of Electron Devices

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Book Condition: New. Publisher/Verlag: Springer, Berlin | Werkstoffe und Verfahren zur Herstellung von Entladungsgeräten / Matériaux et procédés pour la construction d'appareils de décharges électriques / Materiales y procesos de fabricación para elementos electrónicos | This book is intended to be of assistance to the physicist or engineer concerned with designing and building electron devices such as high-vacuum transmitter- or amplifier tubes, gas- or vapor-filled rectifiers, thyratrons, X-ray or luminescent tubes, glow or incandescent lamps, Geiger- or ionization counters, vacuum photo cells, photoconductive cells, selenium-, germanium- or silicon rectifiers or transistors. For this purpose, extensive information is required concerning the composition, behavior and handling of materials as well as a thorough knowledge of high-vacuum technique necessary for processing electron devices after their assembly. The text covers the preparation and working of materials used in these devices; the finishing methods for vacuum tubes (especially degassing, pumping and getter procedures); and different production steps of solid state devices. This book contains about 2300 references indicated in the text by the author's name and reference number. At the end of each chapter the references themselves are listed alphabetically by the author's name and with the title sometimes abbreviated. In accordance with...



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