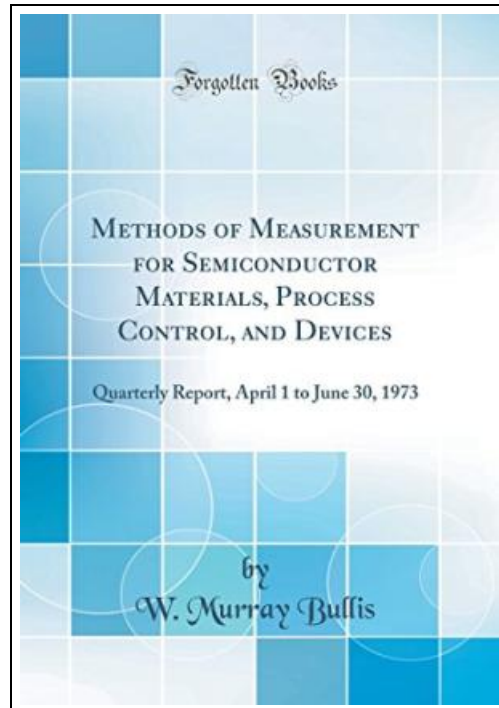


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Forgotten Books, 2017. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Methods of Measurement for Semiconductor Materials, Process Control, and Devices: Quarterly Report, April 1 to June 30, 1973 This quarterly progress report, twentieth of a series, describes nbs activities directed toward the development of methods of measurement for semiconductor materials, process control, and devices. Significant accomplishments during this reporting period include (1) completion of an initial identification of the more important problems in process control for integrated circuit fabrication and assembly as a basis for an expanded effort to be conducted in cooperation with arpa, (2) completion of preparations for making silicon bulk resistivity wafer standards available to the industry, and (3) undertaking of new work to establish the relationship between carrier mobility and impurity density in silicon and to investigate test patterns for use in process control and evaluation. Because of the general applicability of the first of these, a summary of the findings is presented in a separate appendix. Work is continuing on measurement of resistivity of semiconductor crystals; characterization of generation - recombination-trapping centers, including gold, in silicon; evaluation of wire bonds and die attachment; study of scanning electron microscopy for wafer inspection and test; measurement of thermal properties of semiconductor devices; determination of S parameters and delay time in junction devices; and characterization of noise and conversion loss of microwave detector diodes. Supplementary data concerning staff, standards committee activities, technical services, and publications are also included as appendices. This is the last report in this form; future reports in this series will appear under the title, Semiconductor Measurement Technology. Key words: Beam leads; carrier lifetime; delay time; die attachment; electrical properties; electronics; epitaxial silicon; generation centers; gold - doped silicon; methods of measurement; microelectronics; microwave...



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