



Plasma Processing of Materials: Scientific Opportunities and Technological Challenges

By Panel on Plasma Processing of Materials, Plasma Science Committee, Board on Physics and Astronomy, Commission on Physical Sciences, Mathematics, and Applications, Division on Engineering and Physical Sciences

National Academies Press. Paperback. Book Condition: new. BRAND NEW, Plasma Processing of Materials: Scientific Opportunities and Technological Challenges, Panel on Plasma Processing of Materials, Plasma Science Committee, Board on Physics and Astronomy, Commission on Physical Sciences, Mathematics, and Applications, Division on Engineering and Physical Sciences, Plasma processing of materials is a critical technology to several of the largest manufacturing industries in the world - electronics, aerospace, automotive, steel, biomedical, and toxic waste management. This book describes the relationship between plasma processes and the many industrial applications, examines in detail plasma processing in the electronics industry, highlights the scientific foundation underlying this technology, and discusses education issues in this multidisciplinary field. The committee recommends a coordinated, focused, and well-funded research program in this area that involves the university, federal laboratory, and industrial sectors of the community. It also points out that because plasma processing is an integral part of the infrastructure of so many American industries, it is important for both the economy and the national security that America maintain a strong leadership role in this technology.



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