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A panel of internationally renowned scientists discuss the latest results in plasma technology. This volume has been compiled with both a didactic approach and an overview of the newest achievements for industrial applications. It is divided into two main sections. One is focused on fundamental technology, including plasma production and control, high-pressure discharges, modeling and simulation, diagnostics, dust control, and etching. The section on application technology covers polymer treatments, silicon solar cell, coating and spray, biomaterials, sterilization and waste treatment, plasma propulsion, plasma display panels, and anti-corrosion coatings. The result is an indispensable work for physicists, chemists and engineers involved in the field of plasma technology.