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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Operation Space of Tokamaks and Stellarators -- Sawtooth Instability -- Edge Localized Modes (ELMs) -- Resistive Wall Modes (RWMs) -- Neoclassical Tearing Modes (NTM) -- Disruptions.- Fast Particle Driven Instabilities -- Integrated Control of the Instabilities in Future Devices.
Sommario/riassunto	During the past century, world-wide energy consumption has risen dramatically, which leads to a quest for new energy sources. Fusion of hydrogen atoms in hot plasmas is an attractive approach to solve the energy problem, with abundant fuel, inherent safety and no long-lived radioactivity. However, one of the limits on plasma performance is due to the various classes of magneto-hydrodynamic instabilities that may occur. The physics and control of these instabilities in modern

magnetic confinement fusion devices is the subject of this book. Written by foremost experts, the contributions will provide valuable reference and up-to-date research reviews for "old hands" and newcomers alike.

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