

1.0 Basic Processes in Fully and Partially Ionized Plasmas

- 1.1 Basic Phenomena
- 1.2 Computational Plasma Physics
- 1.3 Space Plasmas
- 1.4 Partially ionized Plasmas
- 1.5 Dusty & Strongly Coupled Plasmas
- 1.6 Plasma Chemistry

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2.0 Microwave Generation and Plasma Interactions

- 2.1 Intense Beam Microwave Generation
- 2.2 Fast-Wave Devices
- 2.3 Slow-Wave Devices
- 2.4 Vacuum Microelectronics
- 2.5 Codes and Modeling
- 2.6 Non-Fusion Microwave Systems
- 2.7 Microwave Plasma Interaction
- 2.8 THz Sources, Radiation, & Applications

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3.0 Charged Particle Beams and Sources

- 3.1 Plasma, Ion and Electron Sources
- 3.2 Intense Electron Ion Beams

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4.0 High Energy Density Plasmas and Applications

- 4.1 Fusion (Inertial, Magnetic and Alternate Concepts)
- 4.2 Particle Acceleration with Laser and Beams
- 4.3 Radiation Physics and X-Ray Lasers
- 4.4 High Energy Density Matter
- 4.5 Laser Produced Plasmas
- 4.6 Fast Z pinches
- 4.7 Plasma Material Interactions

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5.0 Industrial, Commercial and Medical Plasma Applications

- 5.1 Nonequilibrium Plasma Applications
- 5.2 High-Pressure and Thermal Plasma Processing
- 5.3 Plasma Thrusters
- 5.4 Plasmas for Lighting, Displays, and Microdischarges
- 5.5 Environmental and Industrial Applications
- 5.6 Plasma Medicine & Biological Effects

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6.0 Plasma Diagnostics

- 6.1 Optical and X-ray Diagnostics
- 6.2 Microwave and FIR Diagnostics
- 6.3 Particle Diagnostics

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7.0 Pulsed Power and Other Plasma Applications

- 7.1 Insulation and Dielectric Breakdown
- 7.2 Switching
- 7.3 Generators & Networks
- 7.4 Compact Pulsed Power and Applications

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