

CONTENTS

Plasma-Flare Conversion of Intense Radiation Energy	1
Laser Generation of Currents and Magnetic Fields	11
Experimental Study of Plasma-Flare Conversion of Microwave Energy in the Centimeter Wavelength Band	17
Plasma-Flare Conversion of the Energy of Microwaves in the Decimeter Band into the Energy of a Quasi-Stationary Electric Current	55
Theory of the Generation of Quasi-Stationary Currents in the Resonance Region of an Inhomogeneous Collisionless Plasma	101
Potential Jumps in a Plasma and Plasma Energy Conversion	113
Acceleration of Ions in an Inhomogeneous Microwave Discharge Plasma	131
Transparency of a Collisionless Plasma Slab in a Strong Microwave Field	161
Dynamics of High-Frequency Langmuir Fields Excited by an Electromagnetic Wave in a Plasma	193
Subject Index	215