

## Contents

Foreword to the American Edition .....	vii
<b>Chapter 1.</b>	
Electron-cyclotron resonance heating of toroidal plasmas.....	1
V. V. Alikayev, A. G. Litvak, E. V. Suvorov, and A.A. Fraiman	
<b>Chapter 2.</b>	
Lower-hybrid plasma heating in tokamaks.....	63
V. E. Golant and V. I. Fedorov	
<b>Chapter 3.</b>	
Radio-frequency heating in the ion-cyclotron frequency range .....	93
A. V. Longinov and K. N. Stepanov	
<b>Chapter 4.</b>	
Alfvén wave heating and current drive .....	239
A. G. Elfimov, A. G. Kirov, and V. P. Sidorov	
<b>Chapter 5.</b>	
Noninductive methods of current drive in tokamaks.....	281
V. V. Parail	
<b>Chapter 6.</b>	
Linear conversion of electromagnetic and plasma waves in a two dimensionally inhomogeneous plasma.....	305
A. D. Piliya and V. I. Fedorov	
<b>Chapter 7.</b>	
Nonlinear effects in rf plasma heating .....	339
A. G. Litvak and A. M. Sergeev	
<b>Chapter 8.</b>	
On plasma diagnostic in toroidal systems using microwave radiation at frequencies close to electron-cyclotron harmonics .....	377
E. V. Suvorov and A. A. Fraiman	