

M. Carter, R. W. Harvey, R. I. Pinsker, and A. P. Smirnov	
Electron Bernstein Wave Applications for Stellarators.....	372
M. D. Carter, D. A. Rasmussen, G. L. Bell, T. S. Bigelow, and J. B. Wilgen	
General Properties of Scattering Matrix for Mode Conversion	
Process between B Waves and External EM Waves and Their	
Consequence to Experiments	376
T. Maekawa, H. Tanaka, M. Uchida, and H. Igami	
Study of Electron Bernstein Wave Absorption Using VORPAL	380
C. Nieter, J. R. Cary, R. W. Harvey, R. Dominguez, and A. P. Smirnov	
Modeling of EBW Coupling with Waveguide Launchers for NSTX.....	384
R. I. Pinsker, G. Taylor, and P. C. Efthimion	
ECE in MAST: Theory and Experiment.....	388
J. Preinhaelter, V. Shevchenko, M. Valovic, P. Pavlo, L. Vahala, G. Vahala, and the MAST Team	
Relativistic Effects in Heating and Current Drive by Electron	
Bernstein Waves	392
A. K. Ram, J. Decker, A. Bers, R. A. Cairns, and C. N. Lashmore-Davies	
Electron Bernstein Wave Research on NSTX and CDX-U.....	396
G. Taylor, P. C. Efthimion, B. Jones, G. L. Bell, A. Bers, T. S. Bigelow, M. D. Carter, R. W. Harvey, A. K. Ram, D. A. Rasmussen, A. P. Smirnov, J. B. Wilgen, and J. R. Wilson	

RF SOURCES AND SYSTEMS

Archimedes Plasma Mass Filter (<i>Invited</i>)	403
R. Freeman, S. Agnew, F. Anderegg, B. Cluggish, J. Gilleland, R. Isler, A. Litvak, R. Miller, R. O'Neill, T. Ohkawa, S. Pronko, S. Putvinski, L. Sevier, A. Sibley, K. Umstadter, T. Wade, and D. Winslow	
Radio-Frequency Sustainment of Laser Initiated, High-Pressure Air	
Constituent Plasmas	411
K. Akhtar, J. E. Scherer, S. M. Tysk, and M. Denning	
RF Frequency Oscillations in the Early Stages of Vacuum	
Arc Collapse	415
S. T. Griffin and Y. C. F. Thio	
PSpice Model of Lightning Strike to a Steel Reinforced Structure.....	419
N. Koone and B. Condren	
Investigation of a Light Gas Helicon Plasma Source for the VASIMR	
Space Propulsion System	423
J. P. Squire, F. R. Chang-Diaz, V. T. Jacobson, T. W. Glover, F. W. Baity, M. D. Carter, R. H. Goulding, R. D. Bengtson, and E. A. Bering, III	
Experimental Measurements and Modeling of a Helicon Plasma	
Source with Large Axial Density Gradients	427
S. M. Tysk, C. M. Denning, J. E. Scherer, B. O. White, and M. K. Akhtar	
RF-Plasma Coupling Schemes for the SNS Ion Source.....	431
R. F. Welton, M. P. Stockli, S. Shukla, and Y. Kang	

THEORY AND MODELING

Effects of Non-Maxwellian Plasma Species on ICRF Propagation and	
Absorption in Toroidal Magnetic Confinement Devices (<i>Invited</i>)	439
R. J. Dumont, C. K. Phillips, and D. N. Smithe	
ECCD for Advanced Tokamak Operations Fisch-Boozer versus	
Ohkawa Methods (<i>Invited</i>)	447
J. Decker	
Towards Predictive Scenario Simulations Combining LH, ICRH, and	
ECRH Heating	455
V. Basiuk, J. F. Artaud, A. Bécoulet, L. G. Eriksson, G. T. Hoang, G. Huysmans, F. Imbeaux, X. Litaudon, D. Mazon, C. Passeron, and Y. Peysson	
Nonlinear Interaction between RF-Heated High-Energy Ions and	
MHD-Modes	459
T. Bergkvist, T. Hellsten, T. Johnson, and M. Laxåback	
Local Mode Analysis of 2D ICRF Wave Solutions.....	463
D. A. D'Ippolito, J. R. Myra, E. F. Jaeger, L. A. Berry, and D. B. Batchelor	
The Effects of Combined Parallel Gradient and Collisional	
Decorrelation in the Absorption of RF Waves	467
B. Goode, J. R. Cary, and L. A. Berry	