

# CONTENTS of Volume II

## 2. DIAGNOSTIC METHODS FOR MAGNETIC CONFINEMENT EXPERIMENTS

### 2.2. Interferometry and Reflectometry

	COURSE	
H. Soltwisch	Interferometry and Faraday Rotation Measurements on Tokamaks Part I. Experimental Techniques.....	343
H. Soltwisch	Interferometry and Faraday Rotation Measurements on Tokamaks Part II. Data Analysis .....	361
A. E. Costley	Diagnosis of Fusion Plasmas Using Reflectometry .....	379
	WORKSHOP	
O. Gehre	Measurement of Electron Density Profiles on ASDEX by HCN-Laser Interferometry .....	399
G. Magyar and J. O'Rourke <i>Presented by G. Magyar</i>	Operating the Jet Multichannel FIR Interferometer .....	409
Li Wen Lai and Yuan Ding Pu <i>Presented by Li Wen Lai</i>	A FIR Interferometer Combining Michelson and Mach-Zehnder Methods for Electron Density Measurements .....	415
H. Weisen	Measurement of Long Wavelength Density Fluctuations in a Tokamak using the Phase Contrast Method.....	421

G. Agosti, L. Ferrucci, M. Fontanesi, A. Galassi and E. Sindoni <i>Presented by G. Agosti</i>	Ion Temperature Diagnostics in a Steady-State Plasma by means of Electrostatic Ion Cyclotron Wave Excitation	427
G. Lisitano	Schlieren Diagnostic of Particle Density Perturbation in Additionally Heated Plasma	439
R. Prentice, A. E. Costley, J. A. Fessey and A. E. Hubbard <i>Presented by A. E. Costley</i>	The JET Multichannel Reflectometer . . . . .	451
A. E. Hubbard, A. E. Costley, J. A. Fessey, R. Prentice and D. Ward <i>Presented by A. E. Hubbard</i>	Electron Density Measurements on JET using A Microwave Reflectometer . . . . .	461
C. A. J. Hugenholtz and A. J. Putter <i>Presented by C. A. J. Hugenholtz</i>	Source, Detection Systems and Data Acquisitions for the JET Multichannel Reflectometer . . . . .	469
<b>2.3. Scattering</b>		
COURSE		
H. Salzmann	Thomson Scattering . . . . .	477
V. K. Gusev	Status and Progress of Thomson Scattering . . .	497
K. Novik	Microwave Enhanced Scattering Diagnostics of Short-Scale Plasma Density Fluctuations . . .	517
J. Olivain	Anomalous Losses and Density Fluctuations	537
WORKSHOP		
G. Gowers, M. Gadeberg, K. Hirsch, P. Nielsen, H. Salzmann, C. Schrödter, B. Brown, A. Costley, B. Edwards and D. Rand <i>Presented by C. Gowers</i>	The JET Lidar Thomson Scattering System . .	555
H. Murmann, D. Meisel, H. Röhr and K. H. Steuer <i>Presented by H. Murmann</i>	A Periodically Operating Multichannel Thomson Scattering System on the Tokamak ASDEX . . . . .	565
D. Santi, M. Bassan and A. Brusadin <i>Presented by D. Santi</i>	Thomson Scattering on FT . . . . .	575
R. Behn, I. Kjelberg, P. A. Krug, S. A. Salito and M. R. Siegrist <i>Presented by R. Behn</i>	Thomson Scattering at 385 Micrometers as a Means to Measure the Ion Temperature of a Tokamak Plasma . . . . .	583
G. Dodel, E. Holzhauer, J. Massig, T. Vogel, P. Ignacz and the ASDEX, ICRH, LH, NI and Pellet Teams <i>Presented by G. Dodel</i>	Collective Scattering at 119 $\mu\text{m}$ from Lower Hybrid Waves and Low Frequency Density Fluctuations in the ASDEX Tokamak . . . . .	589
F. Orsitto and D. Frigione <i>Presented by F. Orsitto</i>	Observation of Lower Hybrid Waves by $\text{CO}_2$ Scattering on FT . . . . .	595

## 2.4. Neutral Particles

	COURSE	
V. V. Afrosimov	Corpuscular Spectroscopic Diagnostics of Hydrogen and Impurity Ions.....	609
A. I. Kislyakov	Fusion Plasma Diagnostics from Charge Exchange Atom Fluxes.....	623
K. McCormick	Measurement of the Poloidal Field Distribution in a Tokamak Plasma via Neutral Lithium Beam Spectroscopy.....	635
WORKSHOP		
K. Kadota and J. Fujita <i>Presented by K. Kadota</i>	Measurement of Local Electric and Magnetic Fields by Neutral Beam Probe Combined with Laser Spectroscopy.....	659
A. J. H. Donné, E. P. Barbian and H. W. van der Ven <i>Presented by A. J. Donné</i>	Active Beam Scattering Method for Measurement of the Local Ion Temperature in a Plasma .....	665
W. van Toledo and H. J. van der Meiden <i>Presented by W. van Toledo</i>	A Novel Apparatus for Detection of Low-Energy Hydrogen Atoms from a Tokamak Plasma .....	673
A. Cheetham, A. Gondhalekar, K. Büchl, M. Bures, D. Campbell, A. Edwards, R. Granetz, N. Gottardi, F. Hendriks, P. D. Morgan, J. O'Rourke, F. Schüller, M. Watkins and A. Weller <i>Presented by A. Cheetham</i>	Results of Pellet Injection Experiments in JET .....	681