

L.Z. Ismail and A. Abou-EIMagd,

The Electron Temperature in a Plasma Induced by Microwaves 1

H.M. Soliman,

Characteristics of a Magnetized Plasma in Coaxial Discharges 8

M. Atta Abd El Halim, H.M. Abd El Monem and L. El Nadi,

A Study on Evaporated Plasma Clouds of Different Cathode Materials during Vacuum Arc Discharges 14

M. Atta Abd El Halim, H.M. Abd El Monem and L. El Nadi,

Effects of Vacuum Micro-Arcs on a Cathode Surface 24

M. Atta Abd El Halim, M. Yeahya Aly, H.M. Abd El Monem and L. El Nadi,

Investigation of Ti-Ions ejected during a Vacuum Arc applying Time of Flight Measurements 33

M. Atta Abd El Halim, A.A. Gabre and L. El Nadi,

Comparative Study of Vacuum Arc Spots on Pure and Carbon-coated Titanium Cathodes 42

M. El Shaer,

Preliminary Results of the Plasma Experiments in the Zagazig Laboratory of Plasma Research 49

Ph. Mertens, Ch. Ning and M.A. Zaki Ewiss,

First Measurements of Magnesium Density Profiles in a Helium Glow Discharge by means of laser-induced Fluorescence 54

B. Schweer *et al.*,

Characteristics of an Argon Glow-Discharge in presence of small O₂ and H₂ admixtures 60

A.H. Saudy,

Relaxation Processes in a Z-Pinch , 66

F.F. Elakshar, A.M. Nossair ,

A Method for Determination of Ion Temperature in a Flowing Collisionless, Magnetized Plasma 72

M. Mobasher, V. Drüke,
A Neutron Spectrometer as a Fusion Plasma Diagnostic Method 78

G. Abdel Fattah, P. Voisin and L. El Nadi,
Optical Investigation of InO_{0.53} GaO_{0.47} As/In P Strained Multiquantum Well 85

Salah I. Hassab EINaby,
Liquid Acousto-Optic Microwave Spectrum Analyser 91

Sh. M. Khalil and B.F. Mohamed,
Nonlinear Excitation of P-Polarized Surface Waves in Anisotropic Plasma Layer 97

H.A. El-Kolaly, S.S. Montasser and B. Honerlage,
On the Theory of Pulse Propagation and Wave Mixing Process at Intense Excitation 106

I.A. El-Naggar ,
On the Study of Longitudinal Oscillations and Time Varying Positive Ions Density 113

M. Omar, S. Huard, S.S. Montasser and L. El-Nadi,
Study of Photothermal Deflection {Mirage Effect} induced by Pulsed Laser Radiation 119

S.S. Montasser ,
Energies of the Valence Bands of Germanium 128

H.H. Hassan,
Nonlinear Intersubband Optical Absorption in a Semiconductor Quantum Well , 135

H.H. Hassan,
Stark Shift in a Semiconductor Quantum Well : Perturbation Calculations 143