

## FORTHCOMING PAPERS

### Voltage sensitivity of the optical nonlinearity in nematic liquid-crystal cells

A. Newzella, R. Stolle, T. Stiens (Germany)

### Liquid-crystal alignment of phthalocyanine-derived Langmuir-Blodgett films

Y. M. Zhu, H. Chen, Y. Wei, W. Yan (P.R. China)

### Novel glass-forming ferroelectric liquid-crystal material of high second-order nonlinearity

M. Laddoch, G. Marowsky, H. Schmid, G. Heppke (Germany)

### Relationship between coherence length and output power of a multi-longitudinal-mode Ar<sup>+</sup> laser

J. Yin, S. Zhu, H. Sun, W. Gao (P.R. China)

### Investigation of ion dynamics in a Penning trap using a pulse-probe technique

K. Dholakia, G.Zs.K. Horvath, W. Power, D.M. Segal, R.C. Thompson (UK)

### Photorefractive four-wave wave mixing in a high-contrast regime

W. Królikowski (Australia)

### Scaling-up <sup>13</sup>C separation by infrared multiphoton dissociation of the CHClF<sub>2</sub>/Br<sub>2</sub> system

G. Chen, B. Wu, J. Liu, Y. Jing, M. Chu, L. Xue, P. Ma (P.R. China)

### Direct observation of the second-order Stark effect of the X-B transition in molecular iodine

A.N. Goncharov, A.Y. Nevsky, M.N. Skvortsov (Russia)

### Solid-state dye lasers based on copolymers of 2-hydroxyethyl methacrylate and methyl methacrylate doped with rhodamine

A. Costela, F. Florido, I. Garcia-Moreno, R. Duchowicz, F. Amat-Guerri, J.M. Figuera, R. Sastre (Spain)

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### Surface Physics 1994

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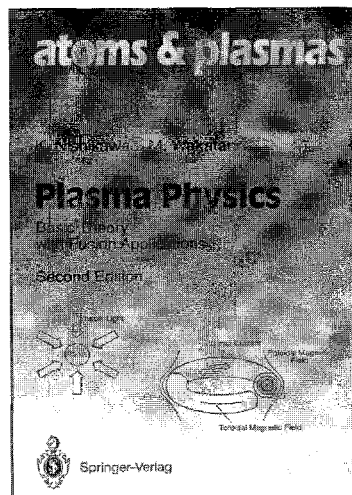
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## A complete survey



K. Nishikawa, Hiroshima University;

M. Wakatani, Kyoto University

## Plasma Physics

### Basic Theory with Fusion Applications

2nd corr. ed. 1993. XIII, 336 pp. 80 figs. Softcover  
DM 80,- ISBN 3-540-56854-9

A thorough treatment of plasma physics, beginning at an introductory level and including an extensive discussion of its applications in thermonuclear fusion research, is presented here. The physics of fusion plasmas is explained mainly in relation to recent progress in tokamak research, but other plasma confinement schemes, such as stellarators and inertial confinement, are also described. The unique and systematic presentation will help readers to understand the overall structure of plasma theory and will facilitate access to more advanced literature on specialist topics. Numerous problems will assist the students in mastering the text.



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