

Fusion Technology™

CONTENTS / JULY 1993—VOL. 23, NO. 4

TECHNICAL PAPERS

PLASMA ENGINEERING

- 369 Self-Tuning Control Studies of the Plasma Vertical Position Problem / *Guang Lin Zheng, Peter E. Wellstead, Michael L. Browne*
- 385 Transport Studies for Ignition Experiments / *Aldo Nocentini, C. Göran Schultz*

BLANKET ENGINEERING

- 400 Influence of LOTUS Concrete Structure, Boron-Loaded Sheets, and B₄C Filter on the Integral Tritium Production of a Natural Lithium Graphite-Reflected Blanket and Comparison with Experiment / *Om Prakash Joneja, J.-P. Schneeberger, Vijay R. Nargundkar*
- 408 Haefely Neutron Generator Characterization from Neutronic Considerations and Comparison with Calculations / *Om Prakash Joneja, Michel Schaer, Cherif Sahraoui, J.-P. Schneeberger, Vijay R. Nargundkar, K. Subba Rao*
- 419 ²³³U Production in a Thoria-and-Water Multilayered Assembly Using a 14-MeV Neutron Source / *Vijay R. Nargundkar, Damaraju V. S. Ramakrishna, Om Prakash Joneja*

MATERIALS ENGINEERING

- 426 A New Method to Evaluate the Thermal Shock Resistance of Ceramics by Laser Pulse Irradiation / *Shigeru Akiyama, Shigeyasu Amada*

TECHNICAL NOTE

DIVERTOR SYSTEMS

- 435 High-Heat-Flux Removal by Phase-Change Fluid and Particulate Flow / *Zinovy R. Gorbis, A. René Raffray, Mohamed A. Abdou*

(Continued)

ON THIS COVER

This month's cover is based on Figs. 5 and 11 of the paper by Zheng et al., which shows the disturbance rejection property of the plasma vertical position system and the response of a self-tuning pole-assignment control system.

CONTENTS / JULY 1993–VOL. 23, NO. 4

(Continued)

TECHNICAL NOTES ON COLD FUSION

- 442 Nuclear Fusion in Crystal Hydrides of Light Elements / *Gennady V. Fedorovich*
- 465 Giant Neutron Trapping by a Molecular Species Produced During the Reaction of D^+ with H^- in a Condensed Phase / *Gian Franco Cerofolini, Giulio Boara, Stefano Agosteo, Armando Foglio Para*

DEPARTMENTS

- 365 Authors
- 470 Meeting Report
Summary of Meeting on Controlled Thermonuclear Fusion, Pisa, Italy, November 9–10, 1992 / *G. H. Miley, Emilio Picasso*
- 474 Letter to the Editor
Notes on Two Papers Claiming No Evidence for the Existence of Excess Energy During the Electrolysis of 0.1 M LiOD/D₂O with Palladium Cathodes / *V. C. Noninski, C. I. Noninski*
- 477 Corrigendum
- 478 Volume 23 Indexes
- v Volume 23 Contents