

### TECHNICAL PAPERS

#### SAFETY/ENVIRONMENTAL ASPECTS

- 341** Environmental Effects of Fusion Power Plants. Part I: Effluents Other Than Tritium / *Johnnie B. Cannon, Clay E. Easterly, Wallace Davis, Jr., Jack S. Watson*
- 354** Environmental Effects of Fusion Power Plants. Part II: Tritium Effluents / *Jack S. Watson, Clay E. Easterly, Johnnie B. Cannon, J. B. Talbot*

#### BLANKET ENGINEERING

- 364** A Hybrid Blanket for a Reversed-Field Pinch Reactor / *Jean-François Jaeger, Donald J. Dudziak, Giorgio Friedrich, Walter V. Green, Peter Groner, Max Huggenberger, Peter Köhler, P. Marmy, Sandro Pelloni, Jiri Stepanek, Ulrich Stiefel, Peter Stiller, M. Victoria*
- 380** Reanalysis of Neutron Multiplication Measurements in Thick Beryllium and Graphite Assemblies for 14-MeV Neutrons / *Vijay R. Nargundkar, Tejen Kumar Basu, Om Prakash Joneja*
- 395** Fission Power Flattening in Hybrid Blankets Using Mixed Fuel / *Sümer Şahin, Mohammad Al-Eshaikh*

#### TRITIUM SYSTEMS

- 409** Tritium Breeding in an Asymmetrically Reflected Blanket Using a Noncentral Neutron Source / *Arthur W. Dalton*

#### PLASMA ENGINEERING

- 416** Two-Dimensional Toroidal Geometry Neutral Atom Transport and Material Erosion Rates in the TEXTOR and TFTR Tokamaks / *Mohammad Zahid Hasan, Robert W. Conn*
- 422** Computer Simulation of Reflection of and Sputtering by Plasma Particles / *Gy. Vízkelethy, F. Pászti, G. Mezey*
- 428** Local Radiative Cooling of Edge Plasmas by Intense Neutral Gas Puffing / *A. K. Prinja, Stewart J. Zweben*

(Continued)

### ON THIS COVER

Artist's visualization of a collection of components for an antenna interface system described in the paper by G. Van Oost et al.

# CONTENTS / NOVEMBER 1987—VOL. 12, NO. 3

(Continued)

- 437 Assessment of Eddy Current Effects on Compression Experiments in the Tokamak Fusion Test Reactor / *King-Lap Wong, W. Park*
- 444 On Muon Production for Muon Catalyzed Fusion / *Lali Chatterjee*

## PLASMA HEATING SYSTEMS

- 449 The High-Power (3-MW) Long-Pulse (3-s) Radio-Frequency System for Ion Cyclotron Resonance Heating Experiments on TEXTOR / *G. Van Oost, V. P. Bhatnagar, T. Delvigne, P. Descamps, F. Durodié, R. Koch, A. M. Messiaen, D. I. C. Pearson, P. E. Vandenplas, A. Vanderstraeten, R. Van Nieuwenhove, G. Van Wassenhove, R. R. Weynants, W. Kohlhaas, C. Stickelmann, A. Cosler, B. Giesen, B. Goerg, S. Haltrich, P. Huettemann, M. Korten*

## ICF TARGETS

- 476 Nuclear Scattering and Suprathermal Fusion / *Anil Kumar, Jacques P. Ligou, Sauro B. Nicli*

## INERTIAL CONFINEMENT FUSION

- 488 Process Design and Evaluation of a Continuous Chemical Plant for the Singlet Oxygen-Iodine Laser / *Robert J. Demyanovich, Scott Lynn*

## DEPARTMENTS

- 331 Authors
- 502 Meeting Report  
Summary of the Seventh Annual American Physical Society Topical Conference on Applications of Radio-Frequency Power to Plasmas, Kissimmee, Florida, May 4–6, 1987 / *Robert W. Motley*
- 505 Volume 12 Indexes
- v Volume 12 Contents