

# **Fusion** technology™

## **CONTENTS / NOVEMBER 1985—VOL. 8, NO. 3**

### **OVERVIEWS**

- 2595** A Study of the Issues and Experiments for Fusion Nuclear Technology / *M. A. Abdou, P. J. Gierszewski, M. S. Tillack, K. Taghavi, K. Kleefeldt, G. Bell, H. Madarame, Y. Oyama, D. H. Berwald, J. K. Garner, R. Whitley, J. Straalsund, R. Burke, J. Grover, E. Opperman, R. Puigh, J. W. Davis, G. D. Morgan, G. Deis, M. C. Billone, K. I. Thomassen, D. L. Jassby*
- 2646** Research on Muon Catalyzed Fusion in the USSR / *Luciano Bracci, Giovanni Fiorentini*

### **TECHNICAL PAPERS**

#### **BLANKET ENGINEERING**

- 2655** Increase of Tritium Breeding Ratio by Blankets Having Front Breeder Zone in Fusion Reactors / *Koichi Maki*
- 2665** A Nonlinear, Multivariable Method for Fusion Reactor Blanket Optimization / *Wayne R. Meier, Edward C. Morse*
- 2681** Blanket Optimization Studies for the HYLIFE Inertial Confinement Fusion Reactor / *Wayne R. Meier, Edward C. Morse*

#### **MATERIALS ENGINEERING**

- 2696** Mechanical and Electrical Properties of Candidate Organic Insulators After Neutron Irradiation at 4 K / *Dennis S. Tucker, John D. Fowler, Jr., Frank W. Clinard, Jr.*

#### **FIRST-WALL TECHNOLOGY**

- 2704** Spectral Dependence of Activation at Fusion Reactor First Walls / *Howard L. Heinisch, Frederick M. Mann, Donald G. Doran*

#### **ICF DRIVER TECHNOLOGY**

- 2708** Pellet Delivery for the Conceptual Inertial Confinement Fusion Reactor HIBALL / *Ronald Kreutz*

(Continued)

### **ON THIS COVER**

Artist's conception of tokamak test facility sectors, based on Fig. 23 of the paper by Abdou et al.

# CONTENTS / NOVEMBER 1985—VOL. 8, NO. 3

(Continued)

## TECHNICAL NOTES

### BLANKET ENGINEERING

- 2721 Application of Multilayered Blanket Concept to the Tokamak Configuration for Tritium Breeding Calculations / *Om Prakash Joneja, Vijay R. Nargundkar*

### FUSION FUEL CYCLES

- 2727 Apparent Muon Loss in Muon Catalyzed Fusion / *Johann Rafelski*

## DEPARTMENTS

- 2589 Authors  
2731 Volume 8 Indexes  
v Volume 8 Contents