

# CONTENTS / AUGUST 1991 – VOL. 20, NO. 1

#### **TECHNICAL PAPERS**

#### PLASMA ENGINEERING

7 Ignition Probabilities for Compact Ignition Tokamak Design Points / Daren P. Stotler, R. J. Goldston, The CIT Team

#### **BLANKET ENGINEERING**

26 Potential of a Catalyzed Fusion-Driven Hybrid Reactor for the Regeneration of CANDU Spent Fuel / Sümer Şahin, Ertuğrul Baltacioğlu, Hüseyin Yapıcı

#### **DIVERTOR SYSTEM**

40 Three-Dimensional Thermomechanical Analysis of a Stainless Steel and Copper Divertor Plate for the Next European Torus / Vito Renda, Loris Papa

#### **FUSION REACTORS**

48 Effects of Particle Transport on Helium Ash Accumulation and Sustained Ignition in the International Thermonuclear Experimental Reactor / Martha H. Redi, Samuel A. Cohen

### SAFETY/ENVIRONMENTAL ASPECTS

58 Maximum Permissible Amounts of Accidentally Released Tritium Derived from an Environmental Experiment to Meet Dose Limits for Public Exposure / Michael Täschner, Claus Bunnenberg, Werner Gulden

## **TECHNICAL NOTES ON COLD FUSION**

- Excess Heat Production by the Electrolysis of an Aqueous Potassium Carbonate Electrolyte and the Implications for Cold Fusion / Randell L. Mills, Steven P. Kneizys
- 82 Some Theories of "Cold" Nuclear Fusion: A Review / Giuliano Preparata

(Continued)

# CONTENTS / August 1991-VOL. 20, NO. 1

#### (Continued)

- 93 Cold Fusion as an Interaction Between Ion Band States / Talbot A. Chubb, Scott R. Chubb
- 100 Electromigration Approach to Verify Cold Fusion Effects / K. Govinda Rajan, U. Kamachi Mudali, R. K. Dayal, P. Rodriguez
- 105 Thermal Effects During the Electrolytic Charging of Deuterium in the Palladium Lattice / N. Giordano, A. S. Aricò, V. Antonucci
- 108 Tritium Analysis in Palladium with an Open System Analytical Procedure / Krystyna Cedzynska, Steven C. Barrowes, Haven E. Bergeson, Lori C. Knight, Fritz G. Will

# **DEPARTMENTS**

- 1 Authors
- 113 Corrigendum