Fusion Greenology"

CONTENTS / DECEMBER 1994-VOL. 26, NO. 4

1241 Comments / George Miley

TECHNICAL PAPERS

PLASMA ENGINEERING

1243 Implications of Fusion Plasma Studies to Other Collective Nonequilibrium Systems / *F. Pegoraro*

MATERIALS ENGINEERING

1250 Phenomenological Inelastic Constitutive Equations for SiC and SiC Fibers Under Irradiation / A. El-Azab, N. M. Ghoniem

FIRST-WALL TECHNOLOGY

1265 Transport of Energetic Ion and Electron Energy Through the Vapor Shield During a Tokamak Plasma Disruption / *E. Tucker, J. Gilligan*

SAFETY/ENVIRONMENTAL ASPECTS

- **1275** Problems and Methods of Activation Calculations for Experimental and Next-Step Fusion Devices / *Massimo Zucchetti*
- 1288 Comprehensive Safety Analysis Code System for Nuclear Fusion Reactors II: Thermal Analyses During Plasma Disruptions for International Thermonuclear Experimental Reactor / *T. Honda, K. Maki, T. Okazaki, T. Uda, Y. Seki, I. Aoki, T. Kunugi*

ENERGY STORAGE, SWITCHING, AND CONVERSION

1296 Beam Direct Converter with Varying Magnetic Field / Mamoru Matsuoka, Masanori Araki, Makoto Mizuno

ELECTROLYTIC DEVICES

1304 Study of Deuterium Charging in Palladium by Electrolysis of Heavy Water / *A. De Ninno, V. Violante*

(Continued)

ON THIS COVER

The artwork on this month's cover is a concept by the artist stimulated by Fig. 8 of the paper by Matsuoka, Araki, and Mizuno.

CONTENTS / DECEMBER 1994-VOL. 26, NO. 4

(Continued)

FUSION REACTORS

- **1311** Neutronic Investigation of a Power Plant Using Peaceful Nuclear Explosives / Sümer Şahin, Ralph W. Moir, Sabahattin Ünalan
- **1326** Inherent Characteristics of Fusion Power Systems: Physics, Engineering, and Economics / *R. W. Bussard, N. A. Krall*

DEPARTMENTS

- 1237 Authors
- 1337 Letter to the Editor Two Proposals Concerning Cold Fusion / Takaaki Matsumoto
- 1338 Technical Reviewers
- 1340 Volume 26 Indexes
- v Volume 26 Contents