

Fusion technology™

CONTENTS / DECEMBER 1991 –VOL. 20, NO. 4 PART 1

385 Comments / *George Miley*

TECHNICAL PAPERS

EXPERIMENTAL DEVICES

387 Development of a Two-Stage Pellet Injector for Heliotron-E / *Shigeru Sudo, Tomosumi Baba, Masahiro Kanno, Shigeki Saka*

399 Characterization of a Laser Ablation Impurity Injector for the Tokamak de Varennes / *Dennis G. Whyte, Emile Haddad, Brian C. Gregory, Gilles Abel*

PLASMA ENGINEERING

407 Current Drive by Tokamak Injection / *Ricardo Farengo, Thomas R. Jarboe*

INSTRUMENTATION AND DATA HANDLING

411 The Identification of Hot Electron Rings in Spindle Cusp Using a Magnetic Dipole Analyzer / *Edbertho Leal-Quiros, Mark A. Prelas*

TRITIUM SYSTEMS

419 Experimental Study for Separation Characteristics of Cryogenic Distillation Columns with an H-D-T System / *Toshihiko Yamanishi, Mikio Enoeda, Kenji Okuno, Takumi Hayashi, Junzo Amano, Yuji Naruse, Robert H. Sherman*

BLANKET ENGINEERING

425 Core Flow Analysis of Liquid-Metal Magnetohydrodynamic Flow in Slotted Channels with Anchor Links / *Kathryn A. McCarthy*

COLD FUSION

433 Review of Experimental Observations About the Cold Fusion Effect / *Edmund Storms*

(Continued)

ON THIS COVER

This month's cover is taken from Fig. 2 of the paper by Farengo and Jarboe, which depicts current drive by tokamak injection.

CONTENTS / DECEMBER 1991 –VOL. 20, NO. 4 PART 1

(Continued)

TECHNICAL NOTES ON COLD FUSION

- 478 The Reality of "Cold Fusion" / *L. C. Case*
- 481 On the Possibility of Coherent Deuteron-Deuteron Fusion in a Crystalline Pd-D Lattice / *S. N. Vaidya*

MEETING SUMMARY

- 484 New Results on Cold Nuclear Fusion: A Review of the Conference on Anomalous Nuclear Effects in Deuterium/Solid Systems, Provo, Utah, October 22–24, 1990 / *V. A. Tsarev, D. H. Worledge*

DEPARTMENTS

- 509 Book Review
Fundamentals of Infrared Detector Operation and Testing /
reviewed by *M. Alfred Akerman*
- 511 Letter to the Editor
Comments on "Excess Heat Production by the Electrolysis of an
Aqueous Potassium Carbonate Electrolyte and the Implications for
Cold Fusion" / *Frederick J. Mayer*