CONTENTS / MAY 1991—VOL. 19, NO. 3
PART 1

407 Comments / George Miley

MEETING SUMMARY


TECHNICAL PAPERS

EXPERIMENTAL DEVICES

418 Numerical Simulations of In Situ Neutron Detector Calibration Experiments on the Tokamak Fusion Test Reactor / L. P. Ku, H. W. Hendel, S. L. Liew, J. D. Strachan

431 Calibration of the Neutron Activation System on the Frascati Tokamak Upgrade: Comparison Between Measured and Calculated Activation Response Coefficients / Maurizio Angelone, Paola Batistoni, Marcello Martone, Mario Pillon, Massimo Rapisarda, Sofia Rollet

ICF DRIVER TECHNOLOGY


BLANKET ENGINEERING

449 Reaction Rate Distributions and Related Data in the Fusion Neutron Source Phase II Experiments: Comparison of Measured and Calculated Data / R. T. Santoro, R. G. Alsmiller, Jr., J. M. Barnes

460 Preliminary Analyses of SWINPC Beryllium Neutron Multiplication Integral Experiments / Lian-Yan Liu, Edward T. Cheng

SAFETY/ENVIRONMENTAL ASPECTS

466 Simulation of Cleanup of Tritiated Water in Fusion Reactor-Size Concrete Enclosures / Shigeo Numata, Yasuhiko Fujii, Makoto Okamoto

(Continued)
CONTENTS / MAY 1991—VOL. 19, NO. 3

(Continued)

DIVERTOR SYSTEMS

473 Test Particle Calculations for the Texas Experimental Tokamak with Resonant Magnetic Fields / Alan J. Wootton, Steven C. McCool, Shaobai Zheng

PLASMA ENGINEERING

492 Fusion Product Momentum Transfer to Inertially Confined Plasma / David L. Galbraith, Terry Kammash

498 A Model for the Edge Plasma near a Poloidal Divertor / William L. Barr

503 An Extension of the Theory for Neutral-Beam-Driven Currents in Tokamaks / W. M. Stacey, Jr., John Mandrekas

515 Thermonuclear Ignition in the Next-Generation Tokamaks / Jean Johner

PLASMA HEATING SYSTEMS

531 Beam Profile Controller in a Neutral Beam System / Shigeru Tanaka, Yoshihiro Ohara, Shin Yamamoto

TECHNICAL NOTES ON COLD FUSION

541 Comments / George Miley

543 On Nuclear Reactions in Defects / John K. Dienes

547 Electropionics and Fusion / John P. Kenny

552 Nuclear Energy Release in Metals / Frederick J. Mayer, John R. Reitz

558 Surface Reaction Mechanism for Deuterium-Deuterium Fusion with a Gas/Solid-State Fusion Device / Yeong E. Kim

567 Microscopic Observations of Palladium Used for Cold Fusion / Takaaki Matsumoto

DEPARTMENTS

399 Authors

576 Book Reviews

The Theory of Coherent Atomic Excitation / reviewed by Thomas Speziale

The Physics of Ionized Gases / reviewed by E. Bickford Hooper, Jr.

579 Letter to the Editor


581 Corrigenda