

NUCLEAR TECHNOLOGY & RADIATION PROTECTION

an international
scientific journal

Vol. XXI ♦ No. 1
June 2006

Contents

Papers

- Anis Bousbia-Salah, Areeya Jirapongmed, Tewfik Hamidouche, John R. White, Francesco D'Auria, Martina Adorni*
ASSESSMENT OF RELAP5 MODEL FOR THE UNIVERSITY OF MASSACHUSETTS LOWELL RESEARCH REACTOR 3
- Aleksandar Dobrosavljević, Saša T. Ćirković, Djordje Košutić, Ljubiša Vukosavljević, Dragan Vranić*
AUTOMATIC SYSTEM FOR THE MAPPING OF THE VINCY CYCLOTRON MAGNETIC FIELD 13
- Jasna L. Ristić-Djurović, Saša T. Ćirković, Djordje Košutić*
BEAM STRIPPING EXTRACTION FROM THE VINCY CYCLOTRON 21
- Andjelija Ž. Ilić, Jasna L. Ristić-Djurović, Saša T. Ćirković*
PRELIMINARY RESULTS OF ION TRAJECTORY TRACKING IN THE ACCELERATION REGION OF THE VINCY CYCLOTRON 29
- Alice Dinu, Marioara Abrudeanu, Maria Radulescu, Lucian Velciu*
ELECTROCHEMICAL STUDIES ON STRESS CORROSION CRACKING OF INCOLOY-800 IN CAUSTIC SOLUTION
Part II: PRECRACKING SAMPLES 34
- Shinzo Kimura, Sarata K. Sahoo, Kunio Shiraishi, Yoshito Watanabe, Tadaaki Ban-Nai, Ivan P. Los, Vitaly N. Korzun, Nikolay Y. Tsygankov, Pavlo V. Zamostyan, Valery E. Shevchuk*
RADIATION MONITORING USING IMAGING PLATE TECHNOLOGY: A CASE STUDY OF LEAVES AFFECTED BY THE CHERNOBYL NUCLEAR POWER PLANT AND JCO CRITICALITY ACCIDENTS 41
- Eman Massoud, Hanan M. Diab*
STAFF DOSE CALCULATION DURING A COBALT-60 SOURCE STUCK 48
- Marina Šokčić-Kostić*
WASTE ASSAYING AND RADIATION MONITORING EQUIPMENT AT THE WASTE MANAGEMENT CENTRE OF NPP LENINGRAD 53
- Dragan Toprek*
EMITTANCE MEASUREMENTS OF THE ACCEL K250 SUPERCONDUCTING MEDICAL CYCLOTRON AT PAUL SCHERRER INSTITUTE 58

Circulation:
600 copies

Printed by:
Printing office of the VINČA Institute of
Nuclear Sciences
14-16, Mike Petrovića Alasa st.
11306 Belgrade, Vinča
Serbia

TWO ISSUES PER YEAR