

Reactors and Nuclear Safety Unit

Operation and Exploitation of the Reactor, Dosimetry (RPI) and Reactor Calculations

Books

Review of Generation III/III+ Fission Reactors, Chapter 22; J.G. Marques, in Nuclear Energy Encyclopedia: Science, Technology and Applications, Jay H. Lehr, Steven B. Krivit, Thomas B. Kingery (Editors), John Wiley & Sons, Hoboken, 2011, 231-254. ISBN 978-0470894392

Safety of Nuclear Fission Reactors: Learning from Accidents, Chapter 15; J.G. Marques, in Nuclear Energy Encyclopedia: Science, Technology and Applications, Jay H. Lehr, Steven B. Krivit, Thomas B. Kingery (Editors), John Wiley & Sons, Hoboken, 2011, 127-149. ISBN 978-0470894392

International Journals

J.G. Marques, M. Sousa, J.P. Santos, A.C. Fernandes, Characterization of the Fast Neutron Irradiation Facility of the Portuguese Research Reactor after Core Conversion, *Applied Radiation and Isotopes* 69 (2011) 1128-1130.

A.F. Gurbich, D. Abriola, N.P. Barradas, A.R. Ramos, I. Bogdanovic-Radovic, M. Chiari, C. Jeynes, M. Kokkoris, M. Mayer, L. Shi, I. Vickridge, *Measurements and Evaluation of Differential Cross-sections for Ion Beam Analysis*, J. Korean Phys. Soc. 59 (2011) 2010-2013.

D. Abriola, N.P. Barradas, I. Bogdanović-Radović, M. Chiari, A.F. Gurbich, C. Jeynes, M. Kokkoris, M. Mayer, A.R. Ramos, L. Shi, I. Vickridge, *Development of a Reference Database for Ion Beam Analysis and Future Perspectives*, Nucl. Instrum. Methods Phys. Res. B 269 (2011) 2972-2978.

National Journals

J.G. Marques, O Acidente na Central Nuclear de Fukushima-I: O que Sabemos, *Gazeta de Física* 34/1 (2011) 57-59.

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T.A. Girard, T.A. Morlat, M. Felizardo, A.C. Fernandes, A. R. Ramos, J.G. Marques, New Limits on WIMP Interactions from the SIMPLE Dark Matter Search, Proceedings of 8th International Conference on the Identification of Dark Matter (IDM2010), Montpellier, France, 2010, Proceedings of Science 55 (2011) 1-7

S. Gaillot, B. Pouchin, J.G. Marques, I. López Calle, F.J. Franco Peláez, J.A. Agapito, Jules Horowitz Reactor Project: Exploration Tests Concerning WIFI Modules Behaviour under Gamma Flux, Proceedings RADECS 2011 Conference, Sevilla, 2011.

M. Felizardo (for the SIMPLE Collaboration), Instrumentation, Acquisition and Analysis of the Phase II SIMPLE Dark Matter Search Signals, Proc. Identification of Dark Matter 2010 Meeting, Proceedings of Science PoS(IDM2010)006 2011.

Nuno P. Barradas, E. Alves, Z. Siketić, I. Bogdanović Radović, Stopping Power of He, C and O in InN, American Institute of Physics Conf. Proc. 1336 (2011) 319-324.

Communications

Invited

J.G. Marques, “Energia Nuclear: Prós e Contras”, Olimpíadas de Física, Instituto Superior Técnico, 7 May 2011.

J.G. Marques, “Energia Nuclear”, Seminário, Escola Secundária Rainha D. Amélia, 10 May 2011.

J.G. Marques, “Segurança em Centrais Nucleares”, Colóquio Japão 2011, Lisboa 1755: Com e Sem Nuclear, Museu Nacional de História Natural, 18 May 2011.

J.G. Marques, “O Acidente em Fukushima-I”, Seminário, ITN, 24 May 2011.

J.G. Marques, “The Fukushima-I Accident”, Colóquio do Departamento de Física, Instituto Superior Técnico, 25 May 2011.

J.G. Marques, “Energia Nuclear e Fukushima”, Conferência sobre Ética Ambiental, Escola Secundária Marquês de Pombal, 16 June 2011.

N. P. Barradas, Neutron Beams in the Portuguese Research Reactor, IAEA Regional Workshop on Concerted Actions in Research and Applications with Neutron Beams in Europe, Budapest, Hungary, 1-3 June 2011

N. P. Barradas, Summary Report on Neutron Imaging, 2nd Coordination Meeting of the Mediterranean Research Reactor Network, IAEA, Vienna, Austria, 22-24 June 2011.

N. P. Barradas, Status Report - Portuguese Research Reactor, 2nd Coordination Meeting of the Mediterranean Research Reactor Network, IAEA, Vienna, Austria, 22-24 June 2011.

N. P. Barradas, Visible light response photocatalytic materials based on TiO₂ grown DC-reactive magnetron sputtering - N content, Midterm Meeting of SPIRIT, 10-11 March 2011 Farnham Castle.

N. P. Barradas, Pitfalls in IBA data analysis, 20th International Conference on Ion Beam Analysis, 10-15 de Abril de 2011, Itapema, Brazil.

Thesis

MSc

Quentin Vinckier, Effets des Radiations Neutroniques et Gamma sur le Comportement de Transistors de Type HEMT et MOSFET, Master en Sciences de l'Ingénieur Industriel en Génies Physique et Nucléaire, Institut Supérieur Industriel de Bruxelles, 2011. Supervisor: J.G. Marques.

Norberto José Sobral Catarino, Caracterização de Danos e Ativação Óptica de Európio Implantado em Nitreto de Gálio Polar e Não-polar, Master in Physical Engineering, Faculdade de Ciências, Universidade de Lisboa. Co-supervisor: J.G. Marques.

Joana Bravo Catela Pinto dos Santos, Estudo do Al₂O₃:Mg,Y e do Perspex Vermelho na Caracterização de Campos Mistos de Radiação do

Reactor Português de Investigação, Master in Physical Engineering, Faculdade de Ciências, Universidade de Lisboa. Supervisor: J.G. Marques.

Luís Miguel Cabeça Marques, Estudo Comparativo de Detectores de HPGe, NaI(Tl) e CdZnTe para Aplicações em Segurança e para Resposta a Ameaças Nucleares e Radiológicas, Master in Physical Engineering, Faculdade de Ciências, Universidade de Lisboa. Co-Supervisor: J.G. Marques.

Internal Reports

A. Kling, Radiological Control at the Portuguese Research Reactor (RPI), Report January 1 – December 31, 2010, ITN/RPI-R-11-116.

J. Marques, N. Barradas, A. Kling, Ana Rita Wahl, RPI Annual Report, ITN/RPI-R-2011/117.

A. Kling, Radiological Control at the Portuguese Research Reactor (RPI), Report January 1 – June 30, 2011. A. Kling ITN/RPI-R-11-118.

Applied Dynamics

Journals

X. Delaune, P. Piteau, V. Debut, J. Antunes, "Experimental validation of inverse techniques for the remote identification of impact forces in gap-supported systems subjected to local and flow turbulence excitations", *ASME Journal of Pressure Vessel Technology*, Vol. 5, Paper 051301 (2011).

R. Hanson, S. Ziada, "Effect of acoustic resonance on the dynamic lift of tube arrays", *Journal of Fluids and Structures*, Vol. 27, pp. 367-382 (2011).

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V. Debut, O. Inácio, J. Antunes, "A linearized modal approach for predicting wolf notes", *Proceedings of the International Congress on Sound and Vibration (ISCV 18)*, 10-14 July 2011, Rio de Janeiro, Brasil.

J. Antunes, X. Delaune, P. Piteau, "Time-domain simulation of the random vibrations of tubes subjected to turbulence-conveying flows", Paper 57162, *Proceedings of the ASME 2011 Pressure Vessels and Piping Conference (PVP 2011)*, July 17-21, 2011, Baltimore, USA.

X. Delaune, J. Antunes, P. Piteau, L. Borsoi, "Experiments and computations of a loosely supported tube under two-phase flow buffeting and fluid-elastic coupling forces", *21st International Conference on Structural Mechanics in Reactor Technology (SMIRT 21)*, 6-11 November 2011, New Delhi, India.

Communications

J. Antunes, "Modélisation des instruments par méthodes modales : méthodologie et illustrations". *Colloquium on "Bowed and plucked string instruments"*, 23 May 2011, ITEM, Le Mans, France.

V. Debut, "Phénomènes de note de loup: résultats théoriques et expérimentaux". *Colloquium on "Bowed and plucked string instruments"*, 23 May 2011, ITEM, Le Mans, France.

V. Debut, "Wolf-note phenomenon: theoretical experimental results". *Violin Acoustics Meeting*, 24-29 September 2011, University of Cambridge, UK.

Internal Reports

J. Antunes, P. Piteau, "VITAMINE : Méthodes simplifiées pour la simulation des excitations temporelles par la turbulence des écoulements transverse et axial", *Report ITN/ADL-Nov11-1*.

J. Antunes, "Réponse vibratoire des crayons combustibles à l'excitation par la turbulence de l'écoulement axial : Analyse de l'influence du terme de transport", *Report ITN/ADL-Nov11-2*.

J. Antunes, X. Delaune, P. Piteau, "TGV-ICE : Calcul des modes de coque de la maquette en air et immergée", *Report ITN/ADL-Dec11-1*.

Seminars

J. Antunes, "Modélisation et effets de la convection axiale dans l'excitation par la turbulence des écoulements", *Commissariat à l'Energie Atomique, Centre d'Études de Saclay*, France, 11 July 2011.

Neutron Activation in Environment, Nutrition and Epidemiology

Book Chapters

M.C. Freitas, N. Canha, M. Martinho, M. Almeida-Silva, S.M. Almeida, P. Pegas, C. Alves, C. Pio, M. Trancoso, R. Sousa, F. Mouro, T. Contreiras (2011) Indoor Air Quality in Primary Schools, Advanced Topics in Environmental Health and Air Pollution Case Studies, Anca Maria Moldoveanu (Ed.), ISBN: 978-953-307-525-9, InTech. Available from: <http://www.intechopen.com/articles/show/title/indoor-air-quality-in-primary-schools>

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N. Canha, M. Almeida, M.C. Freitas, S.M. Almeida, Seasonal Variation of Total Particulate Matter and Children Respiratory Diseases at Lisbon Basic Schools using Passive Methods. *Procedia Environmental Sciences* 4 (2011) 170-183.

N. Canha, M.C. Freitas, I. Dionisio, A.M.G. Pacheco, H.M. Anawar Chemical extraction potential of superficial waters in soils of abandoned sulphide-mining areas. *Proc. Radiochim. Acta* 1 (2011) 377–381.

M. Almeida-Silva, N. Canha, C. Galinha, H.M. Dung, M.C. Freitas, T. Siteo, Trace elements in wild and orchard honeys, *Applied Radiation and Isotopes* 69 (11) (2011) 1592-1595.

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H.M. Anawar, M.C. Freitas, N. Canha (2011) Evaluation of atmospheric dispersion of contaminated mining particulates by biomonitors. *Int. J. Environ. Health.* 5 (1/2) (2011) 84-92.

H.M. Anawar, N. Canha, M.C. Freitas, I.S. Regina, A. Garcia-Sanchez. Effects of different drying processes on the concentrations of metals and metalloids in plant materials. *J. Radioanal. Nucl. Chem.* 289 (2011) 29-34.

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A.M.J.Cruz, M.C. Freitas, T.G.Verburg, N. Canha, H.Th. Wolterbeek Response of exposed bark and exposed lichen to an urban area. *Proc. Radiochim. Acta* 1 (2011) 363–369.

S.M. Almeida, N. Canha, Ana Silva, M.C. Freitas, P. Pegas, C. Alves, M. Evtugina, C.A. Pio Children Exposure to Atmospheric Particles in Indoor of Lisbon Primary Schools. *Atmospheric Environment* 45 (2011) 7594-7599.

N. Canha, M. Almeida-Silva, M. C. Freitas, S. M. Almeida, H. Th. Wolterbeek: Lichens as biomonitors at indoor environments of primary schools. *Journal of Radioanalytical and Nuclear Chemistry*, 291(1) (2011) 123-128.

N. Canha, M. C. Freitas, M. Almeida-Silva, S. M. Almeida, H. M. Dung, I. Dionísio, J. Cardoso, C. A. Pio, A. Caseiro, T. G. Verburg, H. Th. Wolterbeek: Burn wood influence on outdoor air quality in a small village: Foros de Arrão, Portugal, 2011. *Journal of Radioanalytical and Nuclear Chemistry.* 1 (2011) 1261-1.

C. Galinha, H.M. Anawar, M.C. Freitas, A.M.G. Pacheco, M. Almeida-Silva, J. Coutinho, B. Maças, A.S. Almeida, Neutron activation analysis of wheat samples, *Applied Radiation and Isotopes*, 69 (2011) 1596-1604.

C. Galinha, M. C. Freitas, A.M.G. Pacheco, J. Coutinho, B. Maças, A. S. Almeida Radiotracing selenium in bread-wheat seeds for a Se-biofortification program: an optimization study in seed enrichment. *Journal of Radioanalytical and Nuclear Chemistry*, 291 (2011) 193-195.

C. Galinha, M. C. Freitas, A.M.G. Pacheco, J. Coutinho, B. Maças, A. S. Almeida Determination of selenium in bread-wheat samples grown under a Se-supplementation regime in actual field conditions. *Journal of Radioanalytical and Nuclear Chemistry*, 291 (2011) 231-235.

C. Viegas, C. Ramos, M. Almeida, R. Sabino, C. Verissimo, L. Rosado Air fungal contamination in ten hospitals food units in Food and Environment I. *WIT Transactions on Biomedicine and Health*, (2011) 127-132.

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A.V. Silva, R. Bettencourt da Silva, M. F. Camões Optimization of the determination of chemical oxygen demand in wastewaters. *Analytica Chimica Acta*, 699 (2) (2011) 161-169.

M.C. Freitas, S.M. Almeida, H.M. Dung, I. Dionísio, A.M.G. Pacheco, Analysis of air particulate matter in TeflonTM and quartz filters by short-irradiation, epithermal-neutron activation with Compton suppression. *Proc. Radiochim. Acta* 1 (2011) 371-375.

P.N. Pegas, C. A. Alves, M. G. Evtugina, T. Nunes, M. Cerqueira, M. Franchi, C. A. Pio, S. M. Almeida, S. Cabo Verde and M. C. Freitas Seasonal evaluation of outdoor/indoor air quality in primary schools in Lisbon, *J. of Environmental Monitoring* 13 (2011) 657-667.

P.N. Pegas, C.A. Alves, M.G. Evtugina, T. Nunes, M. Cerqueira, M. Franchi, C.A. Pio, S.M. Almeida, M.C. Freitas, Indoor air quality in elementary schools

of Lisbon in Spring, *Environmental Geochemistry Health* 33, (2011) 455-468.

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S.M. Sarmento, T.G. Verburg, S.M. Almeida, M.C. Freitas, H.Th. Wolterbeek (2009) Robustness of different regression modelling strategies in epidemiology: a time-series analysis of hospital admissions and air pollutants in Lisbon (1999–2004), *Environmetrics* 22, (2011) 86-97.

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N. Canha M.C. Freitas, M. Martinho, M. Almeida-Silva, S.M. Almeida, P. Pegas, C. Alves, C. Pio, M. Trancoso, R. Sousa, F. Mouro, T. Contreiras (2011) Indoor Air Quality in Primary Schools. Proceedings of the 14th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes (HARMO 14), Kos Island, Greece, 2-6 October (ISBN 978-960-89650-6-5), pages 312-316.

H.M. Dung, M.C. Freitas, I. Dionisio, S.M. Almeida, B. Vieira (2011) Chemical Elements in Airborne Particulate Matter at Pico Mountain, Azores Island (Portugal) in Period from August 2008 to June 2009, The Global Conference on Global Warming 2011, 11-14 July, Lisbon, Portugal.

A.V. Silva, S.M. Almeida, M.C. Freitas, A.M. Marques, A.I. Silva, C.A. Ramos, T. Pinheiro, S. M. Garcia, G. Domingues, A.I. Miranda (2011) Measurement of fugitive emissions during harbour operations, The Global Conference on Global Warming 2011, 11-14 July, Lisbon, Portugal.

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A.V. Silva, S.M. Almeida, S. M. Sarmento, A.M.J.Cruz, T. Verburg, A.I. Miranda (2011) Air pollution and Hospital Admission for Cardiorespiratory Diseases in Setúbal, Portugal. CAPAC II - International Conference on Air Pollution and Control, 2011, Antalya – Turkey, 19-23 September.

S.M. Almeida, M.C. Freitas, A.I. Pedro, T. Ribeiro, J. Lage, A.V. Silva, N. Canha, M. Almeida-Silva, T. Siteo, I. Dionisio, S. Garcia, G. Domingues, J. Perim de Faria, B. González Fernández, D. Ciaparra (2011) Integration of biomonitoring and instrumental techniques to assess the air quality in an industrial area located in the coastal of central Asturias, Spain. CAPAC II - International Conference on Air Pollution and Control, 2011, Antalya – Turkey, 19-23 September.

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Communications

Invited

S.M. Almeida (2011) Auditoria à Qualidade do Ar Interior em Edifícios de Serviços – Casos de Estudo. Conferência Turismo e Desenvolvimento Sustentável, 5th April, Teatro Municipal de Portimão.

S.M. Almeida (2011) Qualidade do Ar Interior (Ventilação, Toxicidade dos Sistemas e dos Materiais, Análise de Risco). Curso Prosperidade Renovável - Energia I, IBN e LPN, 2nd February.

S.M. Almeida (2011) Qualidade do Ar Interior em Escolas, Custos e Oportunidades, Gestão de Edifícios, Consumo Energético, Qualidade do Ar Interior. Custos e Oportunidades, Ordem dos Engenheiros, 13 January.

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N. Canha, S.M. Almeida, M.C. Freitas (2011) Indoor air quality studies in schools in Lisbon, Portugal. National Institute for Health and Welfare of Finland, Kuopio – Finland, 13th December.

N. Canha, M.C. Freitas, S.M. Almeida, H.M. Dung, I. Dionísio, A.M.G. Pacheco, H.TH. Wolterbeek (2011) Indoor passive deposition at classrooms of Lisbon elementary schools: Characterization of the total particulate matter using k0-INAA and natural radionuclide measurements. RRMC – Radiobioassay & Radiochemical Measurements Conference, Sandestin, Florida, USA, 31 October – 4 November.

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- N. Canha, M.C. Freitas, M. Silva-Almeida, S.M. Almeida, H. M. Dung, I. Dionísio, J. Cardoso, C.A. Pio, A. Caseiro, T.G. Verbung, H.T. Wolterbeek (2011) Burn Wood Influence on Outdoor Air Quality in a small village, Portugal, Modern Trends in Activation Analysis – 13 (MTAA-13), College Station, Texas, 12 – 20 March.
- C. Galinha, M.C. Freitas, A.M.G. Pacheco, J. Coutinho, B. Maças, A.S. Almeida (2011) Selenium and Iodine as Radiotracers in Wheat Samples, Modern Trends in Activation Analysis – 13 (MTAA 13), Texas A&M University, Texas – U.S.A., 13-18 March 2011.
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- Poster**
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- C. Viegas, C. Veríssimo, R. Sabino, M. Almeida-Silva, S. Viegas: Could mycotoxins in the air be a public health problem in Portugal?, 2011. International Conference on Air Pollution and Control (CAPAC II). Antalya, Turkey, 2011.
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A. V. Silva, R. B. da Silva, M. F. Camões. Detailed Evaluation of the Uncertainty for the Determination of the Chemical Oxygen Demand in Wastewater. Eurachem/CITAC 2011- Workshop “Recent Developments in Measurement Uncertainty”, 6-7 de Junho de 2011.

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Thesis

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