

Complete Guide to Nuclear Health Physics - Moe Handbook Radiation Safety Technician Training Manual, Radiation Protection, NRC Basic Health Physics Course, Radioactivity, Detectors, Dosimetry, Meters

U.S. Government, Department of Energy (DOE), Office of Nuclear Safety

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This unique print replica reproduction, totaling over 4000 pages, provides a complete guide to nuclear health physics, with the famous Moe Handbook of Radiation Safety Technician Training Manual and the entire NRC Basic Health Physics Course. The Moe Handbook foreword states: "For many years the Radiation Safety Technician Training Manual, ANL-7291 (affectionately referred to as the "Moe Handbook"), has provided the basis for technician training throughout the nuclear industry. Though a sound document, changes in radiation protection standards and measurement technology since its publication in the early 1970's suggested that a revision would be timely. Due to our keen interest in radiation protection training, the Office of Nuclear Safety, U.S. Department of Energy, was pleased to provide support for such a revision. The end result, Operational Health Physics Training, should provide a useful reference for applied health physicists and technician training courses for years to come."

The NRC Basic Health Physics Course 0751-H122 includes the following: 01 - Introduction to Radioactivity and Radiation. (147 page(s), 1/18/2011) * 02 - Interaction of Charged Particles with Matter. (96 page(s), 3/1/2011) * 03 - Interaction of Photons with Matter. (110 page(s), 7/5/2011) * 04 - Radiation Safety Principles. (35 page(s), 8/17/2011) * 05 - Radiation Detectors - Overview. (26 page(s), 7/6/2010) * 06 - Gas Detectors. (99 page(s), 9/15/2010) * 07 - Solid Scintillators. (108 page(s), 1/6/2010) * 08 - Semiconductor Detectors. (164 page(s), 1/6/2010) * 09 - Survey Instruments. (66 page(s), 10/25/2010) * 10 - Counting Statistics. (81 page(s), 9/30/2010) * 11 - Decay Rates. (52 page(s), 10/25/2010) * 12 - Dosimetric Quantities and Units. (91 page(s), 10/25/2010) * 13 - Calibration of Survey Meters and Measurements of Contamination. (171 page(s), 1/18/2011) * 14 - Radiation Surveys. (47 page(s), 4/30/2010) * 15 - Effects of Radiation at the Cellular Level. (131 page(s), 10/25/2010) * 16 - Early (Acute) Effects of Radiation. (128 page(s), 10/25/2010) * 17 - Late (Delayed) Effects of Radiation. (117 page(s), 10/25/2010) * 18 - Natural Background and Man-Made Radioactivity. (116 page(s), 2/28/2011) * 19 - External Dosimetry. (65 page(s), 1/18/2011) * 20 - Film Dosimetry. (52 page(s), 3/2/2011) * 21 - Thermoluminescent Dosimeters. (100 page(s), 3/1/2011) * 22 - Gamma Spectroscopy Overview. (71 page(s), 6/1/2011) * 23 - OSL Dosimeters. (86 page(s), 2/11/2011) * 24 - Gamma Spectrum Features. (66 page(s), 2/4/2011) * 25 - Neutron Sources. (64 page(s), 10/13/2010) * 26 - Interaction of Neutrons with Matter. (52 page(s), 2/4/2011) * 27 - Neutron Detectors. (125 page(s), 10/13/2010) * 28 - Neutron Activation and Activation Analysis. (57 page(s), 11/26/2009) * 29 - Air Sampling Introduction. (80 page(s), 10/25/2010) * 30 - Air Sampling Equations. (47 page(s), 7/5/2011) * 31 - Liquid Scintillation Counting. (87 page(s), 6/21/2011) * 32 - Shielding Radiation. (112 page(s), 7/5/2011) * 33 - NRC Regulations and Guidance for Internal Dosimetry. (32 page(s), 1/18/2011) * 34 - Radionuclide Pathways. (94 page(s), 4/22/2010) * 35 - Radioactive Waste. (151 page(s), 7/5/2011) * 36 - Medical Sources of Radiation. (95 page(s), 7/31/2009) * 37 - Three Selected Accidents. (49 page(s), 1/18/2011)

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