

1. Record Nr.	UNINA9910710004203321
Autore	Jones Frank E (Frank Edward), <1925->
Titolo	The air density equation and the transfer of the mass unit // Frank E. Jones
Pubbl/distr/stampa	Gaithersburg, MD : , : U.S. Dept. of Commerce, National Institute of Standards and Technology, , 1977
Descrizione fisica	1 online resource
Collana	NBSIR ; ; 77-1278
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references.

2. Record Nr.	UNINA9911004716303321
Titolo	Structural shielding design for medical X-ray imaging facilities [[electronic resource]]
Pubbl/distr/stampa	Bethesda, MD, : National Council on Radiation Protection and Measurement, c2004
ISBN	1-60119-854-X 1-4294-7993-0
Descrizione fisica	1 online resource (205 p.)
Collana	NCRP report ; ; no. 147
Disciplina	616.07/57/0289
Soggetti	Medical radiology - Safety measures Shielding (Radiation) Hospitals - Radiological services - Shielding (Radiation)
Lingua di pubblicazione	Inglese
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Note generali	"Recommendations of the National Council on Radiation Protection and Measurements; issued November 19, 2004."
Nota di bibliografia	Includes bibliographical references (p. 160-163) and index.
Nota di contenuto	""Cover ""; ""Preface""; ""Contents""; ""1. Introduction and Recommendations""; ""1.1 Purpose and Scope""; ""1.2 Quantities and Units""; ""1.3 Controlled and Uncontrolled Areas""; ""1.4 Shielding Design Goals for Medical X-Ray Imaging Facilities and Effective Dose""; ""1.4.1 Controlled Areas""; ""1.4.2 Uncontrolled Areas""; ""1.4.3 Shielding Design Assumptions""; ""1.4.4 Air-Kerma Limits for Radiographic Films""; ""1.5 General Concepts""; ""2. Fundamentals of Shielding for Medical X-Ray Imaging Facilities""; ""2.1 Basic Principles""; ""2.2 Types of Medical X-Ray Imaging Facilities"" ""2.2.1 Radiographic Installations""""2.2.2 Fluoroscopic Installations""; ""2.2.3 Interventional Facilities""; ""2.2.4 Dedicated Chest Installations""; ""2.2.5 Mammographic Installations (Permanent and Mobile)""; ""2.2.6 Computed Tomography Installations""; ""2.2.7 Mobile Radiography and Fluoroscopy X-Ray Units""; ""2.2.8 Dental X-Ray Facilities""; ""2.2.9 Bone Mineral Measurement Equipment""; ""2.2.10 Veterinary X-Ray Facilities""; ""2.2.11 Other X-Ray Imaging Systems""; ""2.3 Shielding Design Elements""; ""2.3.1 Interior Walls""; ""2.3.2 Exterior Building Walls""; ""2.3.3 Doors"" ""2.3.4 Windows""""2.3.5 Floors and Ceilings""; ""2.3.6 Floor-to-Floor

Heights"; "2.3.7 Interstitial Space"; "2.4 Shielding Design Considerations"; "2.4.1 Penetrations in Protective Barriers"; "2.4.2 Joints"; "2.5 Construction Standards"; "2.6 Dimensions and Tolerances"; "3. Elements of Shielding Design"; "3.1 Strategic Shielding Planning"; "3.2 Project Development Process"; "3.2.1 Strategic Planning and Budgeting"; "3.2.2 Programming"; "3.2.3 Schematic (Preliminary) Design"; "3.2.4 Design Development"; "3.2.5 Construction Document Preparation"; "3.3 Documentation Requirements"; "4. Computation of Medical X-Ray Imaging Shielding Requirements"; "4.1 Concepts and Terminology"; "4.1.1 Shielding Design Goals"; "4.1.2 Distance to the Occupied Area"; "4.1.3 Occupancy Factors"; "4.1.4 Workload and Workload Distribution"; "4.1.5 Use Factor"; "4.1.6 Primary Barriers"; "4.1.7 Secondary Barriers"; "4.2 Shielding Calculation Methods"; "4.2.1 General Shielding Concepts"; "4.2.2 Shielding for Primary Barriers"; "4.2.3 Shielding for Secondary Barriers"; "4.2.4 Additional Method for Representative Radiographic Rooms, and Radiographic and Fluoroscopic Rooms"; "4.3 Uncertainties"; "5. Examples of Shielding Calculations"; "5.1 Cardiac Angiography"; "5.2 Dedicated Chest Unit"; "5.3 The Radiographic Room"; "5.3.1 The Floor of the Radiographic Room"; "5.3.2 The Ceiling of a Radiographic Room"; "5.3.3 Wall Containing the Chest Image Receptor in the Radiographic Room"; "5.3.4 Darkroom Wall in the Radiographic Room"; "5.3.5 The Cross-Table Wall in the Radiographic Room"; "5.3.6 Control Wall in the Radiographic Room"; "5.4 Radiographic and Fluoroscopic Room"
