

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
Note generali	1977. Contributed record: Metadata reviewed, not verified. Some fields updated by batch processes. Title from PDF title page.
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
Formato	Materiale a stampa
Livello bibliografico	Monografia
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""

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