1. Record Nr. UNINA9910809637503321

Titolo	Ergonomics : design, integration, and implementation / / Bram N. Brinkerhoff, editor
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2009
ISBN	1-60876-771-X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (302 p.)
Altri autori (Persone)	BrinkerhoffBram N
Disciplina	725/.51
Soggetti	Health facilities - Design and construction Human engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Ergonomics: Design, Integration and Implementation -- Contents -- Preface -- Acoustic Design of Enclosed Spaces -- Abstract -- 1. Introduction -- 2. Acoustic Definitions - Parameters Used to Characterize the Acoustics of Enclosed Spaces -- 3. Measuring Instruments and Techniques -- 4. Acoustic Simulation -- 5. Technical Standards and Values Recommended for Acoustic Parameters -- 6. Acoustic Evaluation of Rooms -- Conclusion -- References -- Reliability of Shoulder Functional Measures in Assessing Physical Capacity of Individuals with Chronic Neck/Shoulder Pain -- Abstract -- Introduction -- Methods -- Data Analysis -- Results -- Discussion -- Inter-Session Comparison of Functional Measures: ROM -- Validity of Shoulder ROM Measures -- Inter-Session Comparison of Functional Measures: MVPE and PO -- Validity of Static and Dynamic Shoulder Function Measures -- Conclusion -- Acknowledgments -- References -- Ergonomics in the Operating Room - An Overview -- Abstract -- Introduction -- Ergonomics in General -- Surgery -- Ergonomics in the Operating Room -- Physical Ergonomics -- Physical Discomfort -- Awareness -- Conclusion -- References -- Integration of Ergonomic Design with Finite Element Analysis and Structural Optimization Technology: Ergonomics in Aluminum Beverage Containers -- Abstract -- 1. Introduction -- 2. Ergonomics in Aluminum Beverage Containers -- 3. Integration with Finite Element Analysis -- 4. Integration with Structural Optimization Technology -- 5. Conclusions -- References --

Ergonomics in the Operating Room: Design Framework -- Abstract -- Introduction -- Methodology -- Case I: Sensorial Ergonomics - Abdominal Wall Tension Measurement Device -- Case II: Cognitive Ergonomics - Improving Ergonomics of Minimally Invasive Surgery - Getting the Most Out of an Integrated Suite.
Case III: Physical Ergonomics - Design of a Handle for Curved Instruments -- Conclusion -- References -- Ergonomic Considerations for the Radiological Workspace -- Abstract -- 1. General Introduction -- 2. Issues to Be Covered in Radiological Workplace Design -- 3. Current Status -- 4. Current and Future Developments -- Conclusion -- References -- Current Ergonomic Issues in Radiology -- Abstract -- Introduction -- Ambient Reading Room Conditions -- Work Area Configuration -- Display Characteristics -- Computerized Tools -- Conclusions -- References -- The Need for Research on Ergonomics in Bariatric Patient Handling -- Patient Handling and Overexertion Injuries in Health Care Workers -- Interventions to Prevent Overexertion in (Non-Bariatric) Patient Handling -- Safe Patient Handling Legislation as of March 31st, 2008 -- Patient Weight/Size -- Non-Bariatric vs Bariatric Patient Handling: An Empirical Gap -- Acknowledgments -- Disclaimer -- References -- Preventing Musculoskeletal Injuries in the Construction Industry -- Abstract -- Introduction -- Method -- Construction and Musculoskeletal Injuries -- Prevention -- Conclusion -- References -- Ergonomics and Epidemiology in Evidence Based Health Prevention -- Abstract -- Introduction -- The Target Populations -- Epidemiology and Disease Models -- Basic Intervention Models -- Evidence Based Medicine -- Epidemiological Study Designs -- Change of Paradigm in Health Sciences -- Conclusion -- References -- Foot Movements for Foot Controls: What We Know and What We Do Not Know -- Abstract -- 1. Introduction -- 2. Past Studies on Foot Movement -- 3. Recent Studies -- Conclusion -- Acknowledgment -- References -- Biomechanics as a Tool in Ergonomics: Demonstration for Back Posture, Balance and Mechanical Work in Expert/Novice Handlers -- Abstract -- Introduction -- Methodology -- Results and Discussion.
Back Asummetries -- Conclusion -- Acknowledgments -- References -- Index.