1. Record Nr. UNINA9910502641303321

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| Autore | Obertelli Alexandre |
| Titolo | Modern Nuclear Physics : From Fundamentals to Frontiers / / by Alexandre Obertelli, Hiroyuki Sagawa |
| Pubbl/distr/stampa | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021 |
| ISBN | 981-16-2289-2 |
| Edizione | [1st ed. 2021.] |
| Descrizione fisica | 1 online resource (739 pages) |
| Collana | UNITEXT for Physics, , 2198-7890 |
| Disciplina | 539.7 |
| Soggetti | Nuclear physics<br>Particle accelerators<br>Particles (Nuclear physics)<br>Quantum field theory<br>Nuclear fusion<br>Astrophysics<br>Nuclear Physics<br>Accelerator Physics<br>Elementary Particles, Quantum Field Theory<br>Nuclear Fusion |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Concepts of Quantum Mechanics from the Nuclear Viewpoint -- Nuclear Forces -- Nuclear Structure Theory -- Nuclear Structure Phenomena and Observables -- Radioactive Ion Beam Physics -- Deformation and Rotation -- Nuclear Reactions -- Celestial Observables and Terrestrial Experiments -- Nuclear Physics and the Standard Model of Elementary Particles. |
| Sommario/riassunto | This textbook is a unique and ambitious primer of nuclear physics, which introduces recent theoretical and experimental progresses starting from basics in fundamental quantum mechanics. The highlight is to offer an overview of nuclear structure phenomena relevant to recent key findings such as unstable halo nuclei, superheavy elements, neutron stars, nucleosynthesis, the standard model, lattice quantum chromodynamics (LQCD), and chiral effective theory. An additional |

attraction is that general properties of nuclei are comprehensively explained from both the theoretical and experimental viewpoints. The book begins with the conceptual and mathematical basics of quantum mechanics, and goes into the main point of nuclear physics – nuclear structure, radioactive ion beam physics, and nuclear reactions. The last chapters devote interdisciplinary topics in association with astrophysics and particle physics. A number of illustrations and exercises with complete solutions are given. Each chapter is comprehensively written starting from fundamentals to gradually reach modern aspects of nuclear physics with the objective to provide an effective description of the cutting edge in the field.

2. Record Nr. UNINA9910253965903321

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| Titolo | Advances in Ergonomic Design of Systems, Products and Processes : Proceedings of the Annual Meeting of GfA 2015 / / edited by Barbara Deml, Patricia Stock, Ralph Bruder, Christopher Marc Schlick |
| Pubbl/distr/stampa | Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer Vieweg, , 2016 |
| ISBN | 3-662-48661-X |
| Edizione | [1st ed. 2016.] |
| Descrizione fisica | 1 online resource (470 p.) |
| Disciplina | 620 |
| Soggetti | Industrial engineering<br>Production engineering<br>Occupational health services<br>Personnel management<br>Economic sociology<br>Psychology, Industrial<br>Industrial and Production Engineering<br>Occupational Health<br>Human Resource Management<br>Economic Sociology<br>Work and Organizational Psychology |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |

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| Note generali | Description based upon print version of record. |
| Nota di contenuto | Editorial; Contents; Part I: Design of Work Systems; Assessment of the Individual Work Organization During a Service Provision; 1 Introduction; 2 Work Analysis: State of Research; 2.1 Conceptual Classification; 2.2 Background: Work Analysis; 3 Method for Evaluating Individual Work Organization; 3.1 Individual Work Organization; 3.2 Assessment of the Individual Work Organization; 3.3 Performance Figures for the Individual Work Organization; 3.3.1 Efficiency of the Individual Work Organization; 3.3.2 Effectiveness of the Individual Work Organization<br>4 Conception and Implementation of the Software4.1 Software-Framework; 4.2 Software Application; 4.2.1 Dialog Boxes for Interaction; 4.2.2 Software Functions for Data Collection; 4.2.3 Software Functions for Data Analysis; 5 Field Study; 5.1 Data Sources and Methods of Data Collection; 5.2 Results; 6 Conclusion and Prospect; References; Assessing and Increasing Innovativeness of SMEs in the Context of Their Demographic Development; 1 NovaDemo Joint Project Content and Process Description; 2 Innovativeness Assessment at Individual and Group Level Using the NovaDemo Assessment Tool<br>2.1 Objective and Theoretical Background of the NovaDemo Assessment Tool2.2 Structure of the NovaDemo Assessment Tool; 2.3 Trialling the NovaDemo Assessment Tool; 2.4 Results of the NovaDemo Assessment Tool at Individual Level; 2.5 Results of the NovaDemo Assessment Tool at Group Level; 3 Increasing Innovativeness at Individual and Group Level with the NovaDemo Training Programme; 3.1 Objective and Theoretical Background of the NovaDemo Training Programme; 3.2 Structure of the NovaDemo Training Programme; 3.3 Description of the NovaDemo Training Programme Sample<br>3.4 Evaluation of the NovaDemo Training Programme4 Summary of the Most Significant Insights of the NovaDemo Joint Project; References; The Quality Culture Inventory (QCI): An Instrument Assessing Quality-Related Aspects of Work; 1 Theoretical Background; 2 The heiQUALITY Cultures Project: Main Objectives; 3 Methodology; 3.1 Systematic Literature Review; 3.2 International Expert Interviews; 3.3 Assessment Model of Quality Culture; 3.4 Quality Culture Inventory (QCI); 3.4.1 Structural-Formal Questionnaire; 3.4.2 Quality Culture Questionnaire; 4 Main Results of the Pilot Study<br>5 Discussion and Future ProspectsReferences; Team Work and Leadership in an Aging Workforce: Results of an Intervention Project; 1 Introduction; 2 Theoretical Background; 2.1 Age Diversity and Age-Diverse Teams; 2.2 Age-Differentiated Leadership; 2.3 Challenges in the Manufacturing Industry; 3 Objectives of the Project; 4 Methodological Design; 4.1 Procedure, Study Design and Sample; 4.1.1 Objective Job Analysis; 4.1.2 Survey Among Employees and Leaders; 4.1.3 Evaluation Design; 4.1.4 Documentation of Organizational Change; 4.2 Conceptualization of the Training Intervention<br>5 Selected Results |
| Sommario/riassunto | These proceedings summarize the best papers in each research area represented at the 2015 Annual Meeting of the German Gesellschaft für Arbeitswissenschaft, held at Karlsruhe Institute of Technology (KIT) from February 26-28. The meeting featured more than 160 presentations and 30 posters reflecting the diversity of subject matter in the field of human and industrial engineering. |