

1. Record Nr.	UNINA9910460854803321
Titolo	Mechanical, information and industrial engineering : selected, peer reviewed papers from the 3rd International Conference on Mechanical, Information and Industrial Engineering, November 21-22, 2014, Weihai, China / / edited by Li Wang
Pubbl/distr/stampa	Pfaffikon, Switzerland : , : Trans Tech Publications Ltd, , 2015 ©2015
ISBN	3-03826-796-1
Descrizione fisica	1 online resource (1060 p.)
Collana	Applied Mechanics and Materials, , 1662-7482 ; ; Volume 740
Disciplina	670.42
Soggetti	Industrial engineering Electronic books.
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 at the end of each chapters and indexes.
Nota di contenuto	Mechanical, Information and Industrial Engineering; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Materials Science and Processing Technologies; KNN-BF Lead-Free Piezoelectric Ceramics Synthesized by Sol-Gel Method; Preparation Process of KNN-0.008BF Lead-Free Piezoelectric Ceramics; Research on Expanded Graphite/Nitrate High-Temperature Composite Phase Change Materials; Study on Properties of EPS Insulation Mortar; The Performance of Cement-Based Self-Leveling Mortars Affected by Mineral Admixtures Morphology Evolution and Mechanical Properties of HNBR Composites Reinforced by HZMMA/Carbon Black during Curing Process Dielectric Properties of Mn, Co, and Ni-Doped LaSrFeO ₃ Films with Different Annealing Atmosphere; Effect of Grain Size on Erosion Wear of B ₄ C/TiC/Al ₂ O ₃ Ceramic Nozzles; Effect of Heat Treatment on Microstructure and Mechanical Properties of Cr ₃₁ Hypereutectic Cast Iron; Influence of Polymer on Properties of Sulphoaluminate Cement Waterproof Mortar; Study on the Performance on Some Admixture of Sulphoaluminate Cement Waterproof Mortar Synthesis of Lignin-Based Epoxy Resin in Ionic Liquid [BMIm]CIFE

Modeling of the Inertia Friction Welding with a Modified Friction Law; Simulation of Mass Transfer in Anode Flow Field of a Passive Direct Methanol Fuel Cell; Chapter 2: General Mechanical Engineering, Applied Mechanics and Dynamics; Analysis and Calculation of a Gravity Turbine Torque, Speed; Contact between Logarithmic Crowned Teeth of Spur Gear Transmission; Remanufacturing Technology in Application of Imported Electro-Discharge Texturing Roll Machine; Design and Simulation of Hybrid Braking System Collaborative ABS Application on Programming and Simulation of the Fan Blade NC Machining Based on UGDesign and Implementation of Measurement Instrument for Non-Cylinder Pinhole of Piston; Design of Spindle Dynamic Balancing Basing on Discal Work; Design Optimization of Opposite Tape-Spring Flexure Hinges; Finite Element Analysis of Large Mining Height Hydraulic Support Top Beam; Finite Element Analysis of the Car Steering Knuckle Based on ANSYS; Modal Analysis of Axial Vibration of Long Pipeline Delivering Coal Slime in Power Plant; Numerical Analysis of Tension Force Subjected by Flexible Mattress Prediction of Machine Tool Thermal Error Compensation Based on SVMR and ARM11 Research on Opening Holes in Cylindrical Shell Based on ANSYS Simulation; Structure and Fluid Dynamic Characteristics Analysis of Enclosed Nuclear Electric Valve; Study of the Vibratory Stress Relief for Large-Scale Parallel Welded Steel Truss; The Finite Element Analysis of the Floor Damper of High Speed Train; Study on Optimizing the Parameters of Floor Absorber of High Speed Train Floor; Thinking about the Calculating Formula of Degree of Freedom of Plane Mechanism Algorithm of Transition Curve of Shaped Piston Cylindrical Cross Section

Sommario/riassunto

Collection of selected, peer reviewed papers from the 3 rd International Conference on Mechanical, Information and Industrial Engineering, November 21-22, 2014, Weihai, China. The 219 papers are grouped as follows: Chapter 1: Materials Science and Processing Technologies; Chapter 2: General Mechanical Engineering, Applied Mechanics and Dynamics; Chapter 3: Mechatronics, Robotics and Vehicle Engineering; Chapter 4: Control Technologies, Automation, Design and Simulation of Manufacturing; Chapter 5: Electrical Engineering and Electric Power Machines; Chapter 6: Power System and Energy Engineering

2. Record Nr.

Titolo

UNINA9910257415003321

Atomic Physics Methods in Modern Research [[electronic resource]] : Selection of Papers Dedicated to Gisbert zu Puthz on the Occasion of his 65th Birthday // edited by Klaus Jungmann, Joachim Kowalski, Irene Reinhard, Frank Traeger

Pubbl/distr/stampa

Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1997

ISBN

3-540-69632-6

Edizione

[1st ed. 1997.]

Descrizione fisica

1 online resource (IX, 454 p. 87 illus.)

Collana

Lecture Notes in Physics, , 0075-8450 ; ; 499

Disciplina

539.7

Soggetti

Atoms
Physics
Chemistry, Physical and theoretical
Biophysics
Materials—Surfaces
Thin films
Atomic, Molecular, Optical and Plasma Physics
Physical Chemistry
Biological and Medical Physics, Biophysics
Surfaces and Interfaces, Thin Films

Lingua di pubblicazione

Inglese

Formato

Materiale a stampa

Livello bibliografico

Monografia

Note generali

Bibliographic Level Mode of Issuance: Monograph

Nota di contenuto

Two-photon method for metrology in hydrogen -- High precision atomic spectroscopy of muonium and simple muonic atoms -- The muonium atom as a probe of physics beyond the standard model -- Can atoms trapped in solid helium be used to search for physics beyond the standard model? -- g-Factors of subatomic particles -- Laser spectroscopy of metastable antiprotonic helium atomcules -- Polarized, compressed ^3He -gas and its applications -- Medical NMR sensing with laser-polarized ^3He and ^{129}Xe -- Test of special relativity in a heavy ion storage ring -- Resonance fluorescence of a single ion -- Resonance raman studies of the relaxation of photoexcited molecules in solution on the picosecond timescale -- Four-quantum

RF-resonance in the ground state of an alkaline atom -- Hard highly directional X-radiation emitted by a charged particle moving in a carbon nanotube -- Quasiclassical approximation in the theory of scattering of polarized atoms -- Ion beam inertial fusion -- Spin-echo experiments with neutrons and with atomic beams -- New generation of light sources for applications in spectroscopy -- Remote sensing of the environment using laser radar techniques -- Applied laser spectroscopy in combustion devices -- The surface of liquid helium - an unusual substrate for unusual coulomb systems -- Aspects of laser-assisted scanning tunneling microscopy of thin organic layers -- Optical spectroscopy of metal clusters -- New concepts for information storage based on color centers -- Excitons and radiation damage in alkali halides -- Polarization of negative muons implanted in the fullerene C60: Speculations about a null result -- Positronium in condensed matter studied with spin-polarized positrons -- Light-induced liberation of atoms and molecules from solid surfaces -- On the shoulders of giants — Early history of hyperfine structure spectroscopy. For gisbert zu putlitz.

Sommario/riassunto

Atomic physics has played a central role in the development of modern physics. Progress was based on newly invented scientific methods and experimental tools and today these techniques are successfully employed in a wide variety of highly active areas in modern research, extending from investigations of most fundamental interactions in physics to experiments related to topics in applied sciences and technical aspects. With steadily increasing importance they are found in areas well outside of classical atomic physics in fields such as nuclear and particle physics, metrology, physics of condensed matter and surfaces, physical chemistry, chemistry, medicine and environmental research. This book gives a thorough survey of the methods and techniques in key experiments of interdisciplinary research.
