1. **Record Nr.**   UNISOBE600200034908

   Titolo   Sociologia dell'organizzazione : Sviluppi ed applicazioni / Scritti di R. Bendix [et al.] ; cur. Claudio Belli ; Riccardo Guala Duca

   Pubbl/distr/stampa   Milano, : Franco Angeli, 1969

   Descrizione fisica   391 p. ; 22 cm

   Collana   Collana di sociologia ; 4

   Lingua di pubblicazione   Italiano

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

2. **Record Nr.**   UNINA9910782342703321

   Titolo   Advances in multi-photon processes and spectroscopy [[electronic resource]] . Volume 18 / / edited by S.H. Lin, A.A. Villaeys, Y. Fujimura

   Pubbl/distr/stampa   Hackensack, NJ, : World Scientific, c2008

   ISBN   1-281-93399-6
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   981-279-174-4

   Descrizione fisica   1 online resource (304 p.)

   Collana   Advances in Multi-Photon Processes and Spectroscopy ; ; v.18

   Altri autori (Persone)   FujimuraY (Yuichi)
   LinS. H <1937-> (Sheng Hsien)
   VillaeysA. A

   Disciplina   543.085
   543.0858
   543/.0858

   Soggetti   Molecular spectra
   Multiphoton processes
   Spectrum analysis

   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.

Nota di contenuto	Contents; Preface; 1. Nonlinear Optics for Characterizing XUV/Soft X-ray High-order Harmonic Fields in Attosecond Regime Yasuo Nabekawa and Katsumi Midorikawa; 1. Introduction; 1.1. Nonlinear phenomena in XUV/soft X-ray region for ultrafast optics; 1.2. Autocorrelation measurement; 2. Generation of Intense Harmonic Fields; 2.1. Single atom response; 2.2. Propagation of the harmonic fields with pumping laser field: Phase matching; 2.3. Development of intense high-order harmonic generator; 3. Two-Photon Double Ionization; 4. Measurement of Attosecond Pulse Train with Two-Photon ATI 5. Interferometric Autocorrelation of APT with Two-Photon Coulomb Explosion 5.1. Similarity of APT with mode-locked laser pulses; 5.2. Why do we need interferometric autocorrelation?; 5.3. Two-photon Coulomb explosion; 5.4. Interferometric autocorrelation; 6. Summary and Prospects; Acknowledgements; References; 2. Signatures of Molecular Structure and Dynamics in High-Order Harmonic Generation Manfred Lein and Ciprian C. Chiril a; 1. Introduction; 2. Theory of High-Order Harmonic Generation; 2.1. Basic theory; 2.2. Three-step model; 2.3. The strong-field approximation 2.4. Odd and even harmonics3. Influence of Molecular Structure on HHG; 3.1. Ionization step; 3.2. Recombination step; 4. Dynamical Effects; 5. Conclusions; Acknowledgments; References; 3. Molecular Manipulation Techniques and Their Applications Hirofumi Sakai; 1. Introduction; 2. Theoretical Background; 3. Molecular Orientation with Combined Electrostatic and Intense, Nonresonant Laser Fields; 3.1. One-dimensional molecular orientation; 3.2. Three-dimensional molecular orientation; 4. Applications with a Sample of Aligned Molecules 4.1. Optimal control of multiphoton ionization processes in aligned I_2 molecules with time-dependent polarization pulses 4.2. High-order harmonic generation from aligned molecules; 5. Summary and Outlook; Acknowledgments; References; 4. Sum Frequency Generation: An Introduction with Recent Developments and Current Issues Mary Jane Shultz; 1. Introduction; 2. Electric Fields and Orientation Factors; 2.1. Fresnel factors and propagation direction; 2.2. Orientation factors; 2.2.1. Simplification of the orientation tensor; 2.3. Observed intensity; 2.3.1. Molecular examples; 3. Recent Developments 3.1. Absolute orientation determination with a reference 3.2. Orthogonal resonances; 3.3. Null angle; 3.3.1. Visible angle null, VAN; 3.3.2. Polarization angle null, PAN; 3.3.3. Connection with previous work; 3.3.4. Example; 4. Current Issues in Sum Frequency Generation; 4.1. Interfacial optical constants and bulk contributions; 4.2. Collective modes - a theoretical challenge; 4.3. Probe depth; 4.4. Nanoparticle SFG; 4.5. Time resolution; 4.6. Surface 2D imaging; 5. Selected Results; 5.1. Ions at aqueous surfaces: The case for surface H_3O^+; 5.2. Interactions at nanostructured interfaces 6. Summary
Sommario/riassunto	This book presents the latest developments and issues in both experimental and theoretical studies of multi-photon processes and the spectroscopy of atoms, ions and molecules in physics, chemistry, biology and material science. It contains review papers suitable for both active researchers and non-experts who wish to enter the field.Special attention is paid to the recent progress of non-linear photon-matter interactions in atoms, molecules and interfaces: XUV/soft X-ray, high-order harmonic generation in attosecond regime, high-order harmonic generation, sum frequency generation, four-wave

3. Record Nr.   UNINA9910392731203321

Titolo   Advances in Robot Kinematics / / edited by Jadran Lenari, Oussama
                       Khatib

Pubbl/distr/stampa   Cham : , : Springer International Publishing : , : Imprint : Springer, ,
                       2014

ISBN   3-319-06698-6

Edizione   [1st ed. 2014.]

Descrizione fisica   1 online resource (536 p.)

Disciplina   004
                       620
                       629.892

Soggetti   Robotics
                       Automation
                       Computer science - Mathematics
                       Vibration
                       Dynamics
                       Robotics and Automation
                       Computational Science and Engineering
                       Vibration, Dynamical Systems, Control

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   Computing Cusps of 3R Robots Using Distance Geometry -- Kinematic
                       Mapping of SE(4) and the Hypersphere Condition -- Direct Kinematics
                       of an Orthogonal 6PRRS Parallel Manipulator -- The Hidden Robot
                       Concept: a Tool for Control Analysis and Robot Control-based Design
                       -- Impact of Perturbation on Wire Tension Vector -- A Deployable
                       Parallel Wrist with Simple Kinematics -- Geometric Derivation of 6R
                       Linkages with Circular Translation -- Function Synthesis of the Planar
                       5R Mechanism Using Least Squares Approximation -- Some Remarks
                       on the RRR Linkage -- Force Capability Polytope of a 4RRR Redundant
                       Planar Parallel Manipulator -- Motion Planning of Non-holonomic
                       Parallel Orienting Platform: A Jacobian Approach -- Non singular
                       Change of Assembly Mode Without any Cusp -- The Influence of

Discrete-Time Control on the Kinematic-Static -- Behavior of Cable-Driven Parallel Robot with Elastic Cables -- Derivatives of Screw Systems in Body-fixed Representation -- Sharp Linkages -- Solvable Multi-Fingered Hands for Exact Kinematic Synthesis -- Non-Singular Assembly Mode Changing Trajectories in the Workspace for the 3-RPS Parallel Robot -- Influence of spring characteristics on the behavior of Tensegrity Mechanisms -- Human Motion Kinematics Assessment Using Wearable Sensors -- Stiffness Matrix of 6-DOF Cable-Driven Parallel Robots and its Homogenization -- Human Motion Mapping to a Robot Arm with Redundancy Resolution -- Analysis of Geometrical Force Calculation Algorithms for Cable-Driven Parallel Robots with a Threefold Redundancy -- Kinetostatic Analysis of Cable-Driven Parallel Robots with Consideration of Sagging and Pulleys -- Direct and Inverse Second Order Kinematics for Hyper-Redundant Parallel Robots -- Kinematic Design of Miura-Ori-Based Folding Structures Using the Screw Axis of a Relative Displacement -- On the Limitations on the Lower and Upper Tensions for Cable-driven Parallel Robots -- Characterization of the Subsystems in the General Three-System of Screws -- Geometrical Patterns for Measurement Pose Selection in Calibration of Serial Manipulators -- Stiffness Analysis of a Fully Compliant Spherical Chain with Two Degrees of Freedom -- Points, Lines, Screws and Planes in Dual Quaternions Kinematic -- Recovering Dual Euler Parameters from Feature-based Representation of Motion -- Kinematics and Dynamics of a 3-RPSR Parallel Robot Used as a Pipe-Bending Machine -- Kinematic Synthesis of a Watt I Six-bar Linkage for Body Guidance -- Collision-Free Workspace of 3-RPR Planar Parallel Mechanism via Interval Analysis -- Development of a One Degree of Freedom Mechanical Thumb Based on Anthropomorphic Tasks for Grasping Applications -- Trifurcation of the Evolved Sarrus-Motion Linkage Based on Parametric Constraints -- The Kinematics of Containment -- The Dimensional Synthesis of 3-RPR Parallel Mechanisms for a Approximating Constrained Hand Paths via Kinematic Synthesis with Contact Specifications -- Investigation of Error Propagation in Multi-Backbone Continuum Robots -- Kinematics of Expansive Planar Periodic Mechanisms -- From Inverse Kinematics to Optimal Control -- New Gravity Balancing Technique and Hybrid Actuation for Spatial Serial Manipulators -- Analysis of Constraint Equations and Their Singularities -- Shape Optimized Heliostats for Kinematic Sun Tracking -- Efficient Resolution of Hyper-Redundancy Using Splines -- Kinematic Modeling of an EAP Actuated Continuum Robot for Active Micro-Endoscopy -- Kinematics Analysis and Singularity Loci of a 4-UPU Parallel Manipulator -- On the Kinematics of an Innovative Parallel Robot for Brachytherapy -- Reconfigurable and Deployable Platonic Mechanisms with a Variable Revolute Joint -- Conditions for Sub-6th Order Screw Systems Composed of Three Planar Pencils of Lines -- Automatic Optimal Biped Walking as a Mixed-Integer Quadratic Program -- Mechanisms with Decoupled Freedoms Assembled from Spatial Deployable Units -- Motion Capability of the 3-RPS Cube Parallel Manipulator -- Coupling of Trajectories for Human-Robot Cooperative Tasks -- Dynamic Analysis of 4 Degrees of Freedom Redundant Parallel Manipulator.

| Sommario/riassunto | The topics addressed in this book cover the whole range of kinematic analysis, synthesis and design and consider robotic systems possessing serial, parallel and cable driven mechanisms. The robotic systems range from being less than fully mobile to kinematically redundant to overconstrained. The fifty-six contributions report the latest results in robot kinematics with emphasis on emerging areas such as design and control of humanoids or humanoid subsystems. The book is of interest |

to researchers wanting to bring their knowledge up to date regarding modern topics in one of the basic disciplines in robotics, which relates to the essential property of robots, the motion of mechanisms.