

1. Record Nr.	UNINA9910830353803321
Titolo	Chemical reactions and their control on the femtosecond time scale [[electronic resource]] : XXth Solvay Conference on Chemistry // edited by Pierre Gaspard and Irene Burghardt
Pubbl/distr/stampa	New York, : Wiley, c1997
ISBN	1-282-68198-2 9786612681981 0-470-14160-3 0-470-14213-8
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Collana	Advances in chemical physics ; ; v. 101
Altri autori (Persone)	GaspardPierre <1959-> Burghardtlrene
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Soggetti	Chemical kinetics Chemical reactions
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Livello bibliografico	Monografia
Note generali	"An Interscience publication."
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Advances in CHEMICAL PHYSICS; CONTENTS; OPENING REMARKS; FEMTOCHEMISTRY: FROM ISOLATED MOLECULES TO CLUSTERS; FEMTOCHEMISTRY: CHEMICAL REACTION DYNAMICS AND THEIR CONTROL; COHERENT CONTROL WITH FEMTOSECOND LASER PULSES; GENERAL DISCUSSION ON FEMTOCHEMISTRY: FROM ISOLATED MOLECULES TO CLUSTERS; FEMTOCHEMISTRY: FROM CLUSTERS TO SOLUTIONS; SIZE-DEPENDENT ULTRAFAST RELAXATION PHENOMENA IN METAL CLUSTERS; FEMTOSECOND CHEMICAL DYNAMICS IN CONDENSED PHASES; FEMTOSECOND LASER CONTROL OF ELECTRON BEAMS FOR ULTRAFAST DIFFRACTION; GENERAL DISCUSSION ON FEMTOCHEMISTRY: FROM CLUSTERS TO SOLUTIONS LASER CONTROL OF CHEMICAL REACTIONSPERSPECTIVES ON THE CONTROL OF QUANTUM MANY-BODY DYNAMICS: APPLICATION TO CHEMICAL REACTIONS; EXPERIMENTAL OBSERVATION OF LASER CONTROL: ELECTRONIC BRANCHING IN THE PHOTODISSOCIATION OF

Na₂; COHERENT CONTROL OF BIMOLECULAR SCATTERING; LASER HEATING, COOLING, AND TRANSPARENCY OF INTERNAL DEGREES OF FREEDOM OF MOLECULES; RAMIFICATIONS OF FEEDBACK FOR CONTROL OF QUANTUM DYNAMICS; THEORY OF LASER CONTROL OF VIBRATIONAL TRANSITIONS AND CHEMICAL REACTIONS BY ULTRASHORT INFRARED LASER PULSES
TIME-FREQUENCY AND COORDINATE-MOMENTUM WIGNER WAVEPACKETS IN NONLINEAR SPECTROSCOPY
GENERAL DISCUSSION ON LASER CONTROL OF CHEMICAL REACTIONS; INTRAMOLECULAR DYNAMICS; SOLVENT DYNAMICS AND RRKM THEORY OF CLUSTERS; HIGH-RESOLUTION SPECTROSCOPY AND INTRAMOLECULAR DYNAMICS; GENERAL DISCUSSION ON INTRAMOLECULAR DYNAMICS; REGULAR AND IRREGULAR FEATURES IN UNIMOLECULAR SPECTRA AND DYNAMICS; INTRAMOLECULAR DYNAMICS IN THE FREQUENCY DOMAIN; EMERGENCE OF CLASSICAL PERIODIC ORBITS AND CHAOS IN INTRAMOLECULAR AND DISSOCIATION DYNAMICS
GENERAL DISCUSSION ON REGULAR AND IRREGULAR FEATURES IN UNIMOLECULAR SPECTRA AND DYNAMICS
MOLECULAR RYDBERG STATES AND ZEKE SPECTROSCOPY; ZEKE SPECTROSCOPY; SEPARATION OF TIME SCALES IN THE DYNAMICS OF HIGH MOLECULAR RYDBERG STATES; GENERAL DISCUSSION ON MOLECULAR RYDBERG STATES AND ZEKE SPECTROSCOPY: PART I; FROM RYDBERG STATE DYNAMICS TO ION-MOLECULE REACTIONS USING ZEKE SPECTROSCOPY; QUANTUM DEFECT THEORY OF THE DYNAMICS OF MOLECULAR RYDBERG STATES; SUBPICOSECOND STUDY OF BUBBLE FORMATION UPON RYDBERG STATE EXCITATION IN CONDENSED RARE GASES
GENERAL DISCUSSION ON MOLECULAR RYDBERG STATES AND ZEKE SPECTROSCOPY: PART II
TRANSITION-STATE SPECTROSCOPY AND PHOTODISSOCIATION; PHOTODISSOCIATION SPECTROSCOPY AND DYNAMICS OF THE VINOXY (CH₂CHO) RADICAL; RESONANCES IN UNIMOLECULAR DISSOCIATION: FROM MODE-SPECIFIC TO STATISTICAL BEHAVIOR; PHOTODISSOCIATING SMALL POLYATOMIC MOLECULES IN THE VUV REGION: RESONANCES IN THE 1E⁺ - 1E⁺ BAND OF OCS; PHASE AND AMPLITUDE IMAGING OF EVOLVING WAVEPACKETS BY SPECTROSCOPIC MEANS; GENERAL DISCUSSION ON TRANSITION-STATE SPECTROSCOPY AND PHOTODISSOCIATION; REACTION RATE THEOREMS
RECENT ADVANCES IN STATISTICAL ADIABATIC CHANNEL CALCULATIONS OF STATE-SPECIFIC DISSOCIATION DYNAMICS

Sommario/riassunto

Continuing the tradition of the Advances in Chemical Physics series, Volume 101: Chemical Reactions and Their Control on the Femtosecond Time Scale details the extraordinary findings reported at the XXth Solvay Conference on Chemistry, held at the Universite Libre de Bruxelles, Belgium, from November 28 to December 2, 1995. This new volume discusses the remarkable opportunities afforded by the femtosecond laser, focusing on the host of phenomena this laser has made it possible to observe. Examining molecules on the intrinsic time scale of their vibrations as well as their dissociative motions

2. Record Nr.	UNINA9910808247103321
Autore	Khazan Inna Z
Titolo	The clinical handbook of biofeedback : a step by step guide for training and practice with mindfulness // Inna Z. Khazan
Pubbl/distr/stampa	Chichester, West Sussex, U.K., : Wiley-Blackwell, c2013
ISBN	1-118-48530-0 1-299-31393-0 1-118-48531-9
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Descrizione fisica	1 online resource (356 p.)
Disciplina	616.89/1425
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Title page; Copyright page; Contents; List of Figures; List of Tables; Acknowledgments; Introduction; Part I: Foundations; 1: Mindfulness and Acceptance Approach to Biofeedback; Sam's Fight for Control; Jack's Struggle with the Present Moment; Bethany's Failure; What Are Mindfulness and Acceptance?; Research Findings; The Practical: How Do You Integrate Mindfulness into Your Biofeedback Practice?; Giving up the futile effort of trying to control; Getting unstuck; Changing the intention; Mindful language; Mindfulness practice; Concerns clients may have about mindfulness practices Step-by-step guide for integrating mindfulness into biofeedbackWhat to do about relaxation exercises; Using mindfulness to troubleshoot; Summary; References; 2: General Issues in Biofeedback; Brief Overview; Important Components of Biofeedback Treatment; A Few More Words about Using This Book; References; 3: Biofeedback Equipment; Large-Scale Comprehensive Professional Devices; Smaller Scale Devices; Inexpensive Easily Available Tools; Reference; Part II: Assessment; 4: Initial Evaluation; 5: Psychophysiological Stress Profile; Surface Electromyography Sensor Placement Guidelines Interpreting Results of the Stress AssessmentNorms; References; Stress Assessment Interpretation; 6: Psychophysiological Relaxation Profile; Interpretation of the Relaxation Profile Results; 7: Evidence-Based

Treatment Planning; Psychophysiological Stress Assessment in Treatment Planning; Common Profile Patterns; Empirical Evidence in Treatment Planning; References; Biofeedback Treatment Plan (Template); Part III: Biofeedback modalities; 8: Breathing; Physiology of Breathing; pH level; Physiology of normal breathing; Physiology of overbreathing; Breathing Assessment; Equipment Assessment procedures Breathing Training; References; Breathing Interview Checklist; 9: Heart Rate Variability; Relevant Physiology; Heart Rate Variability; Sources of HRV; Resonance Frequency; Selected Methods of Measurement of HRV; Determining Resonance Frequency (RF) Breathing Rate; Training breathing at resonance frequency; References; 10: Surface Electromyography; Physiology; Muscular Pain: Dysponesis and Muscle Spindle Trigger Points; Dysponesis; Muscle spindle trigger point model of chronic pain; Working with Muscle Tension; Sensor placement; sEMG Assessment Interpreting upper trapezius assessment results Interpreting the muscle recovery assessment; Interpreting the working-at-the-computer assessment; Treatment; More considerations for sEMG training; References; 11: Temperature; Physiology and Mindfulness in Temperature Biofeedback; Relationship between Stress and Peripheral Temperature: Explanation to Clients; Thermal Biofeedback Training; Thermal Biofeedback Protocol; References; 12: Skin Conductance; Physiology and Measurement; Assessment of Skin Conductance; Working with Skin Conductance; Reference; Part IV: Biofeedback application
13: Anxiety

Sommario/riassunto

A practical guide to the clinical use of biofeedback, integrating powerful mindfulness techniques. A definitive desk reference for the use of peripheral biofeedback techniques in psychotherapeutic settings, backed by a wealth of clinical research Introduces mindfulness and acceptance techniques and shows how these methods can be incorporated into biofeedback practice Step-by-step instructions provide everything a clinician needs to integrate biofeedback and mindfulness including protocols, exemplar logs for tracking symptoms, and sample scripts for mindfulness exe
