Aembodyy

Fundamentals of Adhesion

In this book, a modern unified theory of dispersion forces on atoms and bodies is presented which covers a broad range of different aspects and scenarios. Macroscopic quantum electrodynamics is applied within the context of dispersion forces. In contrast to the normal-mode quantum electrodynamics traditionally used to study dispersion forces, the new approach allows to consider realistic material properties including absorption and is flexible enough to be applied to a broad range of geometries. Thus general properties of dispersion forces like their non-additivity and the relation between microscopic and macroscopic dispersion forces are discussed. It is demonstrated how the general results can be used to obtain dispersion forces on atoms in the presence of bodies of various shapes and materials. In particular, nontrivial magnetic properties of the bodies, bodies of irregular shapes, the role of material absorption, and dynamical forces for excited atoms are discussed. This volume 2 deals especially with quantum electrodynamics, dispersion forces, Casimir forces, asymptotic power laws, quantum friction and universal scaling laws. The book gives both the specialist and those new to the field a thorough overview over recent results in the context of dispersion forces. It provides a toolbox for studying dispersion forces in various contexts.

Dispersion Forces II

Here are the proceedings of the 4th International Workshop on Principles and Practice of Semantic Web Reasoning, PPSWR 2006. The book presents 14 revised full papers together with 1 invited talk and 6 system demonstrations, addressing major aspects of semantic Web research, namely forms of reasoning with a strong interest in rule-based languages and methods. Coverage includes theoretical work on reasoning methods, concrete reasoning methods and query languages, and practical applications.

Chemical Abstracts

Beginning with v. 12, its Abstracts, v. 1-16, from its Bulletin, v. 7-22, were issued with the Scientific papers.

Nippon S?gaku-Buturigakkwai Kizi

Das Leitmotiv dieses Buches ist die Verwendung von Logik als Datenbanksprache. Zunächst werden die Grundlagen der logischen Programmierung erarbeitet und ein spezielles Grundmodell deduktiver Datenbanken definiert. Es folgt die schrittweise Erweiterung dieses Grundmodells um Datenbankkonzepte wie Anfrageauswertung, Integritätsprüfung und Änderungsbearbeitung. Anschließend werden Typ- und Modussysteme diskutiert. Das Buch schließt mit einem praktischen Teil, in dem die prototypische Realisierung des vorgestellten deduktiven Datenbanksystems in Prolog erörtert wird.

Principles and Practice of Semantic Web Reasoning

This book constitutes the refereed proceedings of the First International Conference on Web Reasoning and Rule Systems, RR 2007, held in Innsbruck, Austria. It address all current topics in Web reasoning and rule systems, including acquisition of rules and ontologies by knowledge extraction, design and analysis of reasoning languages, reasoning with constraints, rule languages and systems, semantic Web services modeling and applications.

Scientific Papers of the Institute of Physical and Chemical Research

This book gives a tutorial overview of Gödel, presents example programs, provides a formal definition of the syntax and semantics of the language, and covers background material on logic. Gödel is a new, general-purpose, declarative programming language that is based on the paradigm of logic programming and can be regarded as a successor to Prolog. This book gives a tutorial overview of Gödel, presents example programs, provides a formal definition of the syntax and semantics of the language, and covers background material on logic. The Gödel language supports types and modules. It has a rich collection of system modules and provides constraint solving in several domains. It also offers metalogical facilities that provide significant support for metaprograms that do analysis, transformation, compilation, verification, debugging, and the like. The declarative nature of Gödel makes it well suited for use as a teaching language, narrows the gap that currently exists between theory and practice in logic programming, makes possible advanced software engineering tools such as declarative debuggers and compiler generators, reduces the effort involved in providing a parallel implementation of the language, and offers substantial scope for parallelization in such implementations. Logic Programming series

Scientific Papers

For many decades, science has followed a few well-accepted theories about the universe. There are many inconsistencies in these theories, and this book will introduce some new alternate concepts, which cannot be peer-reviewed, regarding the atom, gravity, time, the speed of light, and more. One major concept that we have been following for five centuries is one where our three-dimensional nature (which is changing continuously) is quantified through a mechanical, one-dimensional, static mathematic equation that does not recognize temperature or pressure. Traditionally, science has tried to predict how the universe functions by creating this modeling system for nature, but how can you possibly create an equation for nature, which is unique and ever-changing? Newton's theory of gravity has postulated that gravity is based on the mechanical weight of an object and is generated from the center of a planet, yet they cannot explain exactly what gravity is. We will show that the gravity of Earth, planets, and moons--in fact, the whole universe--is working with the temperature, pressure, and mass of an object on a molecular basis. Additionally, science has been following a standard modeling theory for an atom on a quantum mechanics level. Empirical evidence will show that an atom cannot be mechanical in nature or follow this man-made model. You will also be introduced to universal time, how time/space is relative, how science is wrong about the speed of light, the definition of three elements that are responsible for everything in the universe, and how the smallest unit of the universe was born and its journey to create heavier atoms. We will solve the mystery of the double-slit experiment as well as explain the character of space and the language of the universe. All this and more is described in easy-to-understand layman's terms.

Deduktive Datenbanken

Our universe is a slow motion matter Factory. The matter that our universe continuously produces, is made from the matter that is continuously emitted into our universe, at the very center of our universe. This matter contains all of the internal information necessary to produce a larger version of its smaller self. As this matter travels from the center of our universe outward, it goes through a specific, continuously balancing amount of accumulation transformations. All of these accumulation transformations happen in a very specific, continuously balancing sequence. Our universe is the continuously balancing activity of this entire specific, continuously balancing sequence. All of the continuously balancing behaviors of our universe are Constant. All of the continuously balancing behaviors of our universe are happening Now. The matter that is passing through our universe is on a journey. All matter is on a journey. One specific journey. All of matter's behaviors are simply transformations of this one specific journey. This is not a book of answers. This is a book of observations, based solely on the process of elimination.

Web Reasoning and Rule Systems

Dispersion forces acting on both atoms and bodies play a key role in modern nanotechnology. As demonstrated in this book, macroscopic quantum electrodynamics provides a powerful method for understanding and quantifying dispersion forces in a vast range of realistic scenarios. The basic physical concepts and theoretical steps allow for the derivation of outlined general expressions for dispersion forces. As illustrated by a number of examples, these expressions can easily be used to study forces between objects of various shapes and materials, including effects like material absorption, nontrivial magnetic properties and dynamical forces asssociated with excited systems.

Japanese Journal of Physics

This book constitutes the thoroughly refereed post-conference proceedings of the 25th International Conference on Inductive Logic Programming, ILP 2015, held in Kyoto, Japan, in August 2015. The 14 revised papers presented were carefully reviewed and selected from 44 submissions. The papers focus on topics such as theories, algorithms, representations and languages, systems and applications of ILP, and cover all areas of learning in logic, relational learning, relational data mining, statistical relational learning, multi-relational data mining, relational reinforcement learning, graph mining, connections with other learning paradigms, among others.

The Gödel Programming Language

Separately paged supplements accompany a few issues.

The Universe Revealed

By presenting state-of-the-art aspects of the theory of computation, this book commemorates the 60th birthday of Neil D. Jones, whose scientific career parallels the evolution of computation theory itself. The 20 reviewed research papers presented together with a brief survey of the work of Neil D. Jones were written by scientists who have worked with him, in the roles of student, colleague, and, in one case, mentor. In accordance with the Festschrift's subtitle, the papers are organized in parts on computational complexity, program analysis, and program transformation.

Proceedings

The 2008 International Symposium on Rule Interchange and Applications (RuleML th 2008), collocated in Orlando, Florida, with the 11 International Business Rules - rum, was the premier place to meet and to exchange ideas from all fields of rules te- nologies. The aim of RuleML 2008 was both to present new and interesting research results and to show successfully deployed rule-based applications. This annual sym- sium is the flagship event of the Rule Markup and Modeling Initiative (RuleML). The RuleML Initiative (www.ruleml.org) is a non-profit umbrella organization of several technical groups organized by representatives from academia, industry and government working on rule technologies and applications. Its aim is to promote the study, research and application of rules in heterogeneous distributed environments such as the Web. RuleML maintains effective links with other major international societies and acts as intermediary between various ‘specialized’ rule vendors, appli- tions, industrial and academic research groups, as well as standardization efforts from, for example, W3C, OMG, and OASIS.

The Cosmic Constants

Vols. for 1903- include Proceedings of the American Physical Society.

Dispersion Forces I

\"Mastering the Art of Prolog Programming: Advanced Techniques and Skills\" is an essential resource for experienced programmers eager to elevate their Prolog expertise. This comprehensive volume demystifies complex logic programming concepts, offering a detailed exploration into Prolog's advanced constructs. From sophisticated data structures and metaprogramming techniques to integrative methods that connect Prolog with other languages, this book provides the tools necessary to harness the full potential of Prolog in solving real-world problems. Each chapter meticulously covers key themes such as constraint logic programming, optimization strategies, and the nuanced intricacies of concurrent and parallel design. Our carefully curated content ensures that readers develop a deep, practical understanding of how to use Prolog effectively across diverse domains, including artificial intelligence, big data management, and high-performance computing. This text is rich with insights, guiding professionals through the intricacies of writing efficient, scalable, and robust Prolog applications. \"Mastering the Art of Prolog Programming\" is not only a testament to the language's versatility and power but also a definitive guide for unlocking creativity and innovation in programming. Through its factual, structured approach, this book empowers you to transform complex challenges into elegant solutions, utilizing the sophisticated capabilities of Prolog. Whether you are developing advanced algorithms or crafting intelligent systems, this book is your key to proficiency and success in the realm of logic programming.

Inductive Logic Programming

Der Spiegel-Bestseller und BookTok-Bestseller Platz 1! Das Geheimnis des Erfolgs: »Die 1%-Methode«. Sie liefert das nötige Handwerkszeug, mit dem Sie jedes Ziel erreichen. James Clear, erfolgreicher Coach und einer der führenden Experten für Gewohnheitsbildung, zeigt praktische Strategien, mit denen Sie jeden Tag etwas besser werden bei dem, was Sie sich vornehmen. Seine Methode greift auf Erkenntnisse aus Biologie, Psychologie und Neurowissenschaften zurück und funktioniert in allen Lebensbereichen. Ganz egal, was Sie erreichen möchten – ob sportliche Höchstleistungen, berufliche Meilensteine oder persönliche Ziele wie mit dem Rauchen aufzuhören –, mit diesem Buch schaffen Sie es ganz sicher. Entdecke auch: Die 1%-Methode – Das Erfolgsjournal

Journal of the Optical Society of America

This book constitutes the refereed proceedings of the 9th International Conference on Logic Programming and Nonmonotonic Reasoning, LPNMR 2007, held in Tempe, AZ, USA, May 2007. This conference encompasses theoretical studies, design and implementation of logic based programming languages and database systems, and development of experimental systems.

Journal of the Optical Society of America and Review of Scientific Instruments

Semantic web technologies (SWTs) offer the richest machine-interpretable (rather than just machine-processable) and explicit semantics that are being extensively used in various domains and industries. This book provides a roadmap for semantic web technologies (SWTs) and highlights their role in a wide range of domains including cloud computing, Internet of Things, big data, sensor network, and so forth. It also explores the prospects of these technologies including different data interchange formats, query languages, ontologies, Linked Data, and notations. The role of SWTs in ‘epidemic Covid-19’, ‘e-learning platforms and systems’, ‘block chain’, ‘open online courses’, and ‘visual analytics in healthcare’ is described as well. This book: Explores all the critical aspects of semantic web technologies (SWTs) Discusses the impact of SWTs on cloud computing, Internet of Things, big data, and sensor network Offers a comprehensive examination of the emerging research in the areas of SWTs and their related domains Provides a template to develop a wide range of smart and intelligent applications Includes latest applications and examples with real data This book is aimed at researchers and graduate students in computer science, informatics, web technology, cloud computing, and Internet of Things.

The Essence of Computation

A complete update to the hit book on the real physics at work in comic books, featuring more heroes, more villains, and more science Since 2001, James Kakalios has taught \"Everything I Needed to Know About Physics I Learned from Reading Comic Books,\" a hugely popular university course that generated coast-to-coast media attention for its unique method of explaining complex physics concepts through comics. With The Physics of Superheroes, named one of the best science books of 2005 by Discover, he introduced his colorful approach to an even wider audience. Now Kakalios presents a totally updated, expanded edition that features even more superheroes and findings from the cutting edge of science. With three new chapters and completely revised throughout with a splashy, redesigned package, the book that explains why Spider-Man's webbing failed his girlfriend, the probable cause of Krypton's explosion, and the Newtonian physics at work in Gotham City is electrifying from cover to cover.

Rule Representation, Interchange and Reasoning on the Web

This book constitutes the thoroughly refereed post-conference proceedings of the 24th International Conference on Inductive Logic Programming, ILP 2014, held in Nancy, France, in September 2014. The 14 revised papers presented were carefully reviewed and selected from 41 submissions. The papers focus on topics such as the inducing of logic programs, learning from data represented with logic, multi-relational machine learning, learning from graphs, and applications of these techniques to important problems in fields like bioinformatics, medicine, and text mining.

Physical Review

The essays in the present volume attempt to historically reconstruct the various dependencies of philosophical and scientific knowledge of the material and technical culture of the early modern era and to draw systematic conclusions for the writing of early modern history of science. The divisive transformation of humanist scholarly culture, the Scholastic school philosophy, as well as magic in the form of a philosophy of practice is always associated with the work of Francis Bacon. All of these essays in this volume reflect the close interaction between technical models and knowledge production in natural philosophy, natural history and epistemology. It becomes clear that the technological developments of the early modern era cannot be adequately depicted in the form of a pure history of technology but rather only as part of a broader, cultural history of the sciences. Contributors include: Todd Andrew Borlik, Arianna Borrelli, Thomas Brandstetter, Daniel Damler, Luisa Dolza, Moritz Epple, Berthold Heinecke, Dana Jalobeanu, J rgen Klein, Staffan M ller-Wille, Romano Nanni, Jarmo Pulkkinen, Pablo Schneider, Andr s Vaccari, Benjamin Wardhaugh, Sophie Weeks, and Claus Zittel.

Mastering the Art of Prolog Programming: Advanced Techniques and Skills

The characteristics of software systems are undergoing dramatic changes. We are moving rapidly into the age of ubiquitous information services. Persistent computing systems are being embedded in everyday objects. They interact in an autonomouswaywith eachother to provideus with increasinglycomplexservices and functionalities that we can access at any time from anywhere. As a con- quence, not only do the numbers of components of software systems increase; there is also a strong qualitative impact. Software systems are increasingly made up of autonomous, proactive, networked components. These interact with each other in patterns and via mechanisms that can hardly be modeled in terms of classical models of interaction or service-oriented coordination. To some extent, future software systems will exhibit characteristics making them more res- blant of natural systems and societies than of mechanical systems and software architectures. This situation poses exciting challenges to computer scientists and software engineers. Already, software agents and multi-agent systems are recognized as both useful abstractions and e?ective technologies for the modeling and building of complex distributed applications. However, little is done with regard to e?- tive and

methodic development of complex software systems in terms of mul- agent societies. An urgent need exists for novel approaches to software modeling and software engineering that enable the successful deployment of software s- tems made up ofa massive number ofautonomous components, and that allowus to control and predict their behaviour.

Die 1%-Methode – Minimale Veränderung, maximale Wirkung

This volume provides the international multibody dynamics community with an up-to-date view on the state of the art in this rapidly growing field of research which now plays a central role in the modeling, analysis, simulation and optimization of mechanical systems in a variety of fields and for a wide range of industrial applications. This book contains selected contributions delivered at the ECCOMAS Thematic Conference on Multibody Dynamics, which was held in Brussels, Belgium and organized by the Université catholique de Louvain, from 4th to 7th July 2011. Each paper reflects the State-of-Art in the application of Multibody Dynamics to different areas of engineering. They are enlarged and revised versions of the communications, which were enhanced in terms of self-containment and tutorial quality by the authors. The result is a comprehensive text that constitutes a valuable reference for researchers and design engineers which helps to appraise the potential for the application of multibody dynamics methodologies to a wide range of areas of scientific and engineering relevance.

Science Abstracts

The revolution in literary form and aesthetic consciousness called modernism arose as the physical sciences were revising their most fundamental concepts: space, time, matter, and the concept of 'science' itself. The coincidence has often been remarked upon in general terms, but rarely considered in detail. Einstein's Wake argues that the interaction of modernism and the 'new physics' is best understood by reference to the metaphors which structured these developments. These metaphors, widely disseminated in the popular science writing of the period, provided a language with which modernist writers could articulate their responses to the experience of modernity. Beginning with influential aspects of nineteenth-century physics, Einstein's Wake qualifies the notion that Einstein alone was responsible for literary 'relativity'; it goes on to examine the fine detail of his legacy in literary appropriations of scientific metaphors, with particular attention to Virginia Woolf, D. H. Lawrence, Wyndham Lewis, and T. S. Eliot.

Logic Programming and Nonmonotonic Reasoning

The Cambridge Descartes Lexicon is the definitive reference source on René Descartes, 'the father of modern philosophy' and arguably among the most important philosophers of all time. Examining the full range of Descartes' achievements and legacy, it includes 256 in-depth entries that explain key concepts relating to his thought. Cumulatively they uncover interpretative disputes, trace his influences, and explain how his work was received by critics and developed by followers. There are entries on topics such as certainty, cogito ergo sum, doubt, dualism, free will, God, geometry, happiness, human being, knowledge, Meditations on First Philosophy, mind, passion, physics, and virtue, which are written by the largest and most distinguished team of Cartesian scholars ever assembled for a collaborative research project - 92 contributors from ten countries.

Semantic Web Technologies

In this book contemporary knowledge of superconductivity is set against its historical background. First, the highlights of superconductivity research in the twentieth century are reviewed. Further contributions then describe the basic phenomena resulting from the macroscopic quantum state of superconductivity (such as zero resistivity, the Meissner-Ochsenfeld effect, and flux quantization) and review possible mechaniscs, including the classical BCS theory and the more recent alternative theories. The main categories of superconductors - elements, intermetallic phases, chalcogenides, oxides and organic compounds - are described. Common features and differences in their structure and electronic properties are pointed out. This

broad overview of superconductivity is completed by a discussion of properties related to the coherence length. Newcomers to the field who seek an overall picture of research in superconductivity, and of the cross-links between its branches, will find this volume especially useful.

The Physics of Superheroes: Spectacular Second Edition

This book attempts to survey the state of the science and technology of the injection molding process. It represents a comprehensive, balanced mix of practical and theoretical aspects for a wide range of injection molding applications. The authors of the 21 chapters are experts and leaders in their respective areas of specialization in the injection molding field. While it is not possible to cover all aspects of such a dynamic growing field, we hope that the reader will find sufficient information and background to become acquainted, at various levels of depth, with key components of the science and technology of injection molding. Contents: Injection Molding: Introduction and General Background Injection Molding Machines, Tools, and Processes The Plasticating System for Injection Molding Machines Non-Conventional Injection Molds Gas Assisted Injection Molding Water Injection Techniques (WIT) Flow Induced Fiber Micro-Structure in Injection Molding of Fiber Reinforced Materials Injection Foam Molding Powder Metal Injection Molding Micro Injection Molding Internal Visualization of Mold Cavity and Heating Cylinder Injection Molding Control Optimal Design for Injection Molding Development of Injection Molding Simulation Three-Dimensional Injection Molding Simulation Viscoelastic Instabilities in Injection Molding Evolution of Structural Hierarchy in Injection Molded Semicrystalline Polymers Modeling Aspects of Post-Filling Steps in Injection Molding Volumetric and Anisotropic Shrinkage in Injection Moldings of Thermoplastics Three-Dimensional Simulation of Gas-Assisted and Co-Injection Molding Processes Co-Injection Molding of Polymers

Inductive Logic Programming

This book constitutes the refereed proceedings of the Second International Conference on Knowledge Science, Engineering and Management, KSEM 2007, held in Melbourne, Australia, in November 2007. The 42 revised full papers and 28 revised short papers presented together with five invited talks were carefully reviewed and selected. The papers provide new ideas and report research results in the broad areas of knowledge science, knowledge engineering, and knowledge management.

Department of State Wireless Bulletin

Chemistry in Quantitative Language is an invaluable guide to solving chemical equations and calculations. It provides readers with intuitive and systematic strategies to carry out the many kinds of calculations they will meet in general chemistry. This book provides innovative, intuitive, and systematic strategies to tackle any type of calculations encountered in chemistry. Each chapter introduces the basic theories and concepts of a particular topic, focusing on relevant equations. Worked examples illuminate each type of problem, with carefully explained step-by-step solutions. Since chemistry problem can be presented in a number of ways, the examples include several versions of each questions. To help students understand and retain the procedures, the solutions discuss not only what steps to carry out to reach solutions, but why. The second edition contains additional problems at the end of each chapter with varying degrees of difficulty, and many of the original examples have been revised. Book jacket.

Philosophies of Technology

This book supplies step-by-step instructions on how to secure the provenance of data to make sure it is safe from inference attacks. It details the design and implementation of a policy engine for provenance of data and presents case studies that illustrate solutions in a typical distributed health care system for hospitals. Although the case studies describe solutions in the health care domain, the methods presented in the book are applicable to a range of other domains.

Engineering Societies in the Agents World III

Multibody Dynamics
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