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Essential Physics - John Matolyak 2013-12-17

Fluency with physics fundamentals and problem-solving has a collateral effect on students by enhancing their analytical reasoning skills. In a sense, physics is to intellectual pursuits what strength training is to sports. Designed for a two-semester algebra-based course, *Essential Physics* provides a thorough understanding of the fundamentals of physics central to many fields. It omits material often found in much larger texts that cannot be covered in a year-long course and is not needed for non-physics majors. Instead, this text focuses on providing a solid understanding of basic physics and physical principles. While not delving into the more specialized areas of the field, the text thoroughly covers mechanics, electricity and magnetism, light, and modern physics. This book is appropriate for a course in which the goals are to give the students a grasp of introductory physics and enhance their analytical problem-solving skills. Each topic includes worked examples. Math is introduced as necessary, with some applications in biology, chemistry, and safety science also provided. If exposure to more applications, special topics, and concepts is desired, this book can be used as a problem-solving supplement to a more inclusive text.

Advanced Graphic Communications, Packaging Technology and Materials - Yun Ouyang 2015-12-05
This book includes a selection of reviewed papers presented at the 2015, 4th China Academic Conference on Printing and Packaging, which was held on October 22-24, 2015 in Hangzhou, China. The conference was jointly organized by the China Academy of Printing Technology, Beijing Institute of Graphic Communication, and Hangzhou Dianzi University. With 3 keynote talks and 200 presented papers on graphic communications, packaging technologies and materials, the conference attracted more than 400 scientists. These proceedings cover the recent research outcomes on color science and technology, image-processing technology, digital-media technology, printing-engineering technology, packaging-engineering technology etc. They will be of interest to university researchers, R&D engineers and graduate students in graphic communications, packaging, color science, image science, materials science, computer science, digital media and network technology fields.

New Oxford secondary english course - L. Ayo Banjo 1983

Big Data Analytics - Sanjay Madria 2019-12-12

This book constitutes the refereed proceedings of the 7th International Conference on Big Data analytics, BDA 2019, held in Ahmedabad, India, in December 2019. The 25 papers presented in this volume were carefully reviewed and selected from 53 submissions. The papers are organized in topical sections named: big data analytics: vision and perspectives; search and information extraction; predictive analytics in medical and agricultural domains; graph analytics; pattern mining; and machine learning.

The International Encyclopedia of Education - Torsten Husén 1994

V.1. Abi-Bur v.2. Cam-Cro- v.3. Cub-Edu. v.4. Edu-Gen. v.5. Gen-Ite. v.6. Jam M au. v.7. Mau-Par. v.8. Par-Rec. v.9. Reg. Soc. v.10. Soc-Tea. v.11. Tec-Zim. v. 12. Indexes.

Education in the Era of Globalization - Klas Roth 2007-10-11

Education seems to have lost its orientation in Western culture and is in disarray all over the globe in time of global transitions. This book attempts to address the challenge of globalization to education in the broadest sense of the concept of education. The various texts are written by some of the most famous and interesting scholars in the field. This collection is unique and opens the door for further research and public discussion

on the future role of education.

Advances in Metaheuristic Algorithms for Optimal Design of Structures - A. Kaveh 2018-06-29

This book presents efficient metaheuristic algorithms for optimal design of structures. Many of these algorithms are developed by the author and his colleagues, consisting of Democratic Particle Swarm Optimization, Charged System Search, Magnetic Charged System Search, Field of Forces Optimization, Dolphin Echolocation Optimization, Colliding Bodies Optimization, Ray Optimization. These are presented together with algorithms which were developed by other authors and have been successfully applied to various optimization problems. These consist of Particle Swarm Optimization, Big Bang-Big Crunch Algorithm, Cuckoo Search Optimization, Imperialist Competitive Algorithm, and Chaos Embedded Metaheuristic Algorithms. Finally a multi-objective optimization method is presented to solve large-scale structural problems based on the Charged System Search algorithm. The concepts and algorithms presented in this book are not only applicable to optimization of skeletal structures and finite element models, but can equally be utilized for optimal design of other systems such as hydraulic and electrical networks. In the second edition seven new chapters are added consisting of the new developments in the field of optimization. These chapters consist of the Enhanced Colliding Bodies Optimization, Global Sensitivity Analysis, Tug of War Optimization, Water Evaporation Optimization, Vibrating Particle System Optimization and Cyclical Parthenogenesis Optimization algorithms. A chapter is also devoted to optimal design of large scale structures.

New School Chemistry - Osei Yaw Ababio 1985

The Saint - 'Tade Adegbindin 2002

Metaheuristics for Bi-level Optimization - El-Ghazali Talbi 2013-04-09

This book provides a complete background on metaheuristics to solve complex bi-level optimization problems (continuous/discrete, mono-objective/multi-objective) in a diverse range of application domains. Readers learn to solve large scale bi-level optimization problems by efficiently combining metaheuristics with complementary metaheuristics and mathematical programming approaches. Numerous real-world examples of problems demonstrate how metaheuristics are applied in such fields as networks, logistics and transportation, engineering design, finance and security.

Particle Swarm Optimization and Intelligence: Advances and Applications - Parsopoulos, Konstantinos E. 2010-01-31

"This book presents the most recent and established developments of Particle swarm optimization (PSO) within a unified framework by noted researchers in the field"--Provided by publisher.

Molecular Modeling in Heavy Hydrocarbon Conversions - Michael T. Klein 2005-09-28

In the past two decades, new modeling efforts have gradually incorporated more molecular and structural detail in response to environmental and technical interests. *Molecular Modeling in Heavy Hydrocarbon Conversions* introduces a systematic molecule-based modeling approach with a system of chemical engineering software tools that can automate the entire model building, solution, and optimization process. Part I shows how chemical engineering principles provide a rigorous framework for the building, solution, and optimization of detailed kinetic models for delivery to process chemists and engineers. Part II presents

illustrative examples that apply this approach to the development of kinetic models for complex process chemistries, such as heavy naphtha reforming and gas oil hydroprocessing. *Molecular Modeling in Heavy Hydrocarbon Conversions* develops the key tools and best possible approaches that process chemists and engineers can use to focus on the process chemistry and reaction kinetics for performing work that is repetitive or prone to human-error accurately and quickly.

The African Book Publishing Record - 2005

Physics - Charles Chew 2004

Biomass for Renewable Energy, Fuels, and Chemicals - Donald L. Klass 1998-07-06

Biomass for Renewable Energy, Fuels, and Chemicals serves as a comprehensive introduction to the subject for the student and educator, and is useful for researchers who are interested in the technical details of biomass energy production. The coverage and discussion are multidisciplinary, reflecting the many scientific and engineering disciplines involved. The book will appeal to a broad range of energy professionals and specialists, farmers and foresters who are searching for methods of selecting, growing, and converting energy crops, entrepreneurs who are commercializing biomass energy projects, and those involved in designing solid and liquid waste disposal-energy recovery systems. Presents a graduated treatment from basic principles to the details of specific technologies Includes a critical analysis of many biomass energy research and commercialization activities Proposes several new technical approaches to improve efficiencies, net energy production, and economics Reviews failed projects, as well as successes, and methods for overcoming barriers to commercialization Written by a leader in the field with 40 years of educational, research, and commercialization experience

Herbal Medicine in India - Saikat Sen 2019-09-10

This book highlights the medical importance of and increasing global interest in herbal medicines, herbal health products, herbal pharmaceuticals, nutraceuticals, food supplements, herbal cosmetics, etc. It also addresses various issues that are hampering the advancement of Indian herbal medicine around the globe; these include quality concerns and quality control, pharmacovigilance, scientific investigation and validation, IPR and biopiracy, and the challenge that various indigenous systems of medicine are at risk of being lost. The book also explores the role of traditional medicine in providing new functional leads and modern approaches that can offer elegant strategies for facilitating the drug discovery process. The book also provides in-depth information on various traditional medicinal systems in India and discusses their medical importance. India has a very long history of safely using many herbal drugs. Folk medicine is also a key source of medical knowledge and plays a vital role in maintaining health in rural and remote areas. Despite its importance, this form of medicine largely remains under-investigated. Out of all the traditional medicinal systems used worldwide, Indian traditional medicine holds a unique position, as it has continued to deliver healthcare throughout the Asian subcontinent since ancient times. In addition, traditional medicine has been used to derive advanced techniques and investigate many modern drugs. Given the scope of its coverage, the book offers a valuable resource for scientists and researchers exploring traditional and herbal medicine, as well as graduate students in courses on traditional medicine, herbal medicine and pharmacy.

Swarm Intelligence - Eric Bonabeau 1999-09-23

Social insects--ants, bees, termites, and wasps--can be viewed as powerful problem-solving systems with sophisticated collective intelligence. Composed of simple interacting agents, this intelligence lies in the networks of interactions among individuals and between individuals and the environment. A fascinating subject, social insects are also a powerful metaphor for artificial intelligence, and the problems they solve--finding food, dividing labor among nestmates, building nests, responding to external challenges--have important counterparts in engineering and computer science. This book provides a detailed look at models of social insect behavior and how to apply these models in the design of complex systems. The book shows how these models replace an emphasis on control, preprogramming, and centralization with designs featuring autonomy, emergence, and distributed functioning. These designs are proving immensely flexible and robust, able to adapt quickly to changing environments and to continue functioning even when individual elements fail. In particular, these designs are an exciting approach to the tremendous growth of complexity

in software and information. Swarm Intelligence draws on up-to-date research from biology, neuroscience, artificial intelligence, robotics, operations research, and computer graphics, and each chapter is organized around a particular biological example, which is then used to develop an algorithm, a multiagent system, or a group of robots. The book will be an invaluable resource for a broad range of disciplines.

Senior Secondary Physics - Pius N. Okeke 1987

Handbook of Heuristics - Rafael Martí 2017-01-16

Heuristics are strategies using readily accessible, loosely applicable information to control problem solving. Algorithms, for example, are a type of heuristic. By contrast, Metaheuristics are methods used to design Heuristics and may coordinate the usage of several Heuristics toward the formulation of a single method. GRASP (Greedy Randomized Adaptive Search Procedures) is an example of a Metaheuristic. To the layman, heuristics may be thought of as 'rules of thumb' but despite its imprecision, heuristics is a very rich field that refers to experience-based techniques for problem-solving, learning, and discovery. Any given solution/heuristic is not guaranteed to be optimal but heuristic methodologies are used to speed up the process of finding satisfactory solutions where optimal solutions are impractical. The introduction to this Handbook provides an overview of the history of Heuristics along with main issues regarding the methodologies covered. This is followed by Chapters containing various examples of local searches, search strategies and Metaheuristics, leading to an analyses of Heuristics and search algorithms. The reference concludes with numerous illustrations of the highly applicable nature and implementation of Heuristics in our daily life. Each chapter of this work includes an abstract/introduction with a short description of the methodology. Key words are also necessary as part of top-matter to each chapter to enable maximum search engine optimization. Next, chapters will include discussion of the adaptation of this methodology to solve a difficult optimization problem, and experiments on a set of representative problems.

Recent Developments in Metaheuristics - Lionel Amodeo 2017-10-02

This book highlights state-of-the-art developments in metaheuristics research. It examines all aspects of metaheuristic research including new algorithmic developments, applications, new research challenges, theoretical developments, implementation issues, in-depth experimental studies. The book is divided into two sections. Part I is focused on new optimization and modeling techniques based on metaheuristics. The chapters in this section cover topics from multi-objective problems with fuzzy data with triangular-valued objective functions, to hyper-heuristics optimization methodology, designing genetic algorithms, and also the cuckoo search algorithm. The techniques described help to enhance the usability and increase the potential of metaheuristic algorithms. Part II showcases advanced metaheuristic approaches to solve real-life applications issues. This includes an examination of scheduling, the vehicle routing problem, multimedia sensor network, supplier selection, bin packing, objects tracking, and radio frequency identification. In the fields covered in the chapters are of high-impact applications of metaheuristics. The chapters offer innovative applications of metaheuristics that have a potential of widening research frontiers. Altogether, this book offers a comprehensive look at how researchers are currently using metaheuristics in different domains of design and application.

Optimization Theory, Decision Making, and Operations Research Applications - Athanasios Migdalas 2012-11-28

These proceedings consist of 30 selected research papers based on results presented at the 10th Balkan Conference & 1st International Symposium on Operational Research (BALCOR 2011) held in Thessaloniki, Greece, September 22-24, 2011. BALCOR is an established biennial conference attended by a large number of faculty, researchers and students from the Balkan countries but also from other European and Mediterranean countries as well. Over the past decade, the BALCOR conference has facilitated the exchange of scientific and technical information on the subject of Operations Research and related fields such as Mathematical Programming, Game Theory, Multiple Criteria Decision Analysis, Information Systems, Data Mining and more, in order to promote international scientific cooperation. The carefully selected and refereed papers present important recent developments and modern applications and will serve as excellent reference for students, researchers and practitioners in these disciplines.

AI and Machine Learning Paradigms for Health Monitoring System - Hasmat Malik 2021-02-14

This book embodies principles and applications of advanced soft computing approaches in engineering, healthcare and allied domains directed toward the researchers aspiring to learn and apply intelligent data analytics techniques. The first part covers AI, machine learning and data analytics tools and techniques and their applications to the class of several hospital and health real-life problems. In the later part, the applications of AI, ML and data analytics shall be covered over the wide variety of applications in hospital, health, engineering and/or applied sciences such as the clinical services, medical image analysis, management support, quality analysis, bioinformatics, device analysis and operations. The book presents knowledge of experts in the form of chapters with the objective to introduce the theme of intelligent data analytics and discusses associated theoretical applications. At last, it presents simulation codes for the problems included in the book for better understanding for beginners.

Adaptive and Natural Computing Algorithms - Marco Tomassini 2013-04-12

The book constitutes the refereed proceedings of the 11th International Conference on Adaptive and Natural Computing Algorithms, ICANNGA 2013, held in Lausanne, Switzerland, in April 2013. The 51 revised full papers presented were carefully reviewed and selected from a total of 91 submissions. The papers are organized in topical sections on neural networks, evolutionary computation, soft computing, bioinformatics and computational biology, advanced computing, and applications.

Computer Studies for Senior Secondary Schools - Nigeria. Federal Ministry of Education 2008

African Books in Print - 1978

ICDSMLA 2019 - Amit Kumar 2020-05-19

This book gathers selected high-impact articles from the 1st International Conference on Data Science, Machine Learning & Applications 2019. It highlights the latest developments in the areas of Artificial Intelligence, Machine Learning, Soft Computing, Human-Computer Interaction and various data science & machine learning applications. It brings together scientists and researchers from different universities and industries around the world to showcase a broad range of perspectives, practices and technical expertise.

Extragalactic Radio Sources - Wolfgang Priester 1965

Latent Heat of Fusion of Ice - Hobert Cutler Dickinson 1914

The Benue Trough - Charles O. Ofoegbu 1990

Lonely Days - 'Bayo Adebawale 2006

Nature-Inspired Optimization Algorithms - Xin-She Yang 2014-02-17

Nature-Inspired Optimization Algorithms provides a systematic introduction to all major nature-inspired algorithms for optimization. The book's unified approach, balancing algorithm introduction, theoretical background and practical implementation, complements extensive literature with well-chosen case studies to illustrate how these algorithms work. Topics include particle swarm optimization, ant and bee algorithms, simulated annealing, cuckoo search, firefly algorithm, bat algorithm, flower algorithm, harmony search, algorithm analysis, constraint handling, hybrid methods, parameter tuning and control, as well as multi-objective optimization. This book can serve as an introductory book for graduates, doctoral students and lecturers in computer science, engineering and natural sciences. It can also serve a source of inspiration for new applications. Researchers and engineers as well as experienced experts will also find it a handy reference. Discusses and summarizes the latest developments in nature-inspired algorithms with comprehensive, timely literature Provides a theoretical understanding as well as practical implementation hints Provides a step-by-step introduction to each algorithm

Building Technology - Ivor H. Seeley 1980

Metaheuristics - Patrick Siarry 2016-12-24

Metaheuristics exhibit desirable properties like simplicity, easy parallelizability, and ready applicability to

different types of optimization problems. After a comprehensive introduction to the field, the contributed chapters in this book include explanations of the main metaheuristics techniques, including simulated annealing, tabu search, evolutionary algorithms, artificial ants, and particle swarms, followed by chapters that demonstrate their applications to problems such as multiobjective optimization, logistics, vehicle routing, and air traffic management. The authors are leading researchers in this domain, with considerable teaching and applications experience, and the book will be of value to industrial practitioners, graduate students, and research academics.

Productivity in Construction - S. P. Dozzi 1993

Principles of Physics - Michael Nelkon 1990-05-01

Principles of Physics is a well-established popular textbook which has been completely revised and updated.

Search Methodologies - Edmund K. Burke 2006-03-20

This book is a tutorial survey of the methodologies that are at the confluence of several fields: Computer Science, Mathematics and Operations Research. It provides a carefully structured and integrated treatment of the major technologies in optimization and search methodology. The chapter authors are drawn from across Computer Science and Operations Research and include some of the world's leading authorities in their field. It can be used as a textbook or a reference book to learn and apply these methodologies to a wide range of today's problems.

AC Theory - National Joint Apprenticeship and Training Committee 2008-03-26

This fundamental alternating current (AC) theory book, now in its second edition, offers a user-friendly approach and practical examples to keep industry professionals up-to-date. Designed to provide a thorough introduction to AC theory from its production, to its uses and circuitry; AC Theory, 2E uses the basics of direct current theory to explain the various facets of AC theory. The book begins by covering the primary components of AC circuits, such as resistors, inductors, and capacitors. The chapters that follow build upon the basic principles learned in these chapters, gradually introducing increasingly complex topics such as applying AC principles in power generation and generators, parallel and combination circuits, and more. With updated sidebars that provide a real-world context for the topics covered, users will develop strong connections between theory and applications, preparing them for work in the electrical field.

Calculations in Chemistry - John Olusina Obimakinde 2014-06-30

Calculations in Chemistry is intended to help students overcome the challenges associated with solving the numerical problems in chemistry. Chemistry is a numerical science which cannot be fully appreciated without adequate numerical skills. In fact, the lack of problem-solving skills has been recognised as one of the major reasons for the poor performance recorded in the subject over the years. Budgetary and size constraints often translate to lack of space for solving enough sample problems in core textbooks and most problems are presented in a difficult manner that douses enthusiasm for learning.

Search Methodologies - Edmund K. Burke 2013-10-18

The first edition of Search Methodologies: Introductory Tutorials in Optimization and Decision Support Techniques was originally put together to offer a basic introduction to the various search and optimization techniques that students might need to use during their research, and this new edition continues this tradition. Search Methodologies has been expanded and brought completely up to date, including new chapters covering scatter search, GRASP, and very large neighborhood search. The chapter authors are drawn from across Computer Science and Operations Research and include some of the world's leading authorities in their field. The book provides useful guidelines for implementing the methods and frameworks described and offers valuable tutorials to students and researchers in the field. "As I embarked on the pleasant journey of reading through the chapters of this book, I became convinced that this is one of the best sources of introductory material on the search methodologies topic to be found. The book's subtitle, "Introductory Tutorials in Optimization and Decision Support Techniques", aptly describes its aim, and the editors and contributors to this volume have achieved this aim with remarkable success. The chapters in this book are exemplary in giving useful guidelines for implementing the methods and frameworks described." Fred Glover, Leeds School of Business, University of Colorado Boulder, USA "[The book] aims to present a series of well written tutorials by the leading experts in their fields. Moreover, it does this by covering

practically the whole possible range of topics in the discipline. It enables students and practitioners to study and appreciate the beauty and the power of some of the computational search techniques that are able to effectively navigate through search spaces that are sometimes inconceivably large. I am convinced that this second edition will build on the success of the first edition and that it will prove to be just as popular." Jacek Blazewicz, Institute of Computing Science, Poznan University of Technology and Institute of Bioorganic Chemistry, Polish Academy of Sciences

[The Greatest Show on Earth](#) - Richard Dawkins 2009-09-22

Richard Dawkins transformed our view of God in his blockbuster, *The God Delusion*, which sold millions of copies in English alone. He revolutionized the way we see natural selection in the seminal bestseller *The Selfish Gene*. Now, he launches a fierce counterattack against proponents of "Intelligent Design" in his New

York Times bestseller, *The Greatest Show on Earth*. "Intelligent Design" is being taught in our schools; educators are being asked to "teach the controversy" behind evolutionary theory. There is no controversy. Dawkins sifts through rich layers of scientific evidence—from living examples of natural selection to clues in the fossil record; from natural clocks that mark the vast epochs wherein evolution ran its course to the intricacies of developing embryos; from plate tectonics to molecular genetics—to make the airtight case that "we find ourselves perched on one tiny twig in the midst of a blossoming and flourishing tree of life and it is no accident, but the direct consequence of evolution by non-random selection." His unjaded passion for the natural world turns what might have been a negative argument, exposing the absurdities of the creationist position, into a positive offering to the reader: nothing less than a master's vision of life, in all its splendor.