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KEY=FISICA - ANDREWS JAZMIN

TEACHING-LEARNING CONTEMPORARY PHYSICS

FROM RESEARCH TO PRACTICE

Springer Nature This book presents research contributions focussing on the introduction of contemporary physics topics - mainly, but not exclusively, quantum physics - into high school curricula. Despite the important advances and discoveries in quantum physics and relativity which have revolutionized our views of nature and our everyday lives, the presence of these topics in high school physics education is still lacking. In this book physics education researchers report on the teaching and learning of quantum physics from different perspectives and discuss the design and use of different pedagogical approaches and educational pathways. There is still much debate as to what content is appropriate at high school level as well what pedagogical approaches and strategies should be adopted to support student learning. Currently there is a greater focus on how to teach modern physics at the high school level rather than classical physics. However, teachers still lack experience and availability of appropriate teaching and learning materials to support the coherent integration of Quantum Physics in high school curricula. All of the 19 papers presented in this book discuss innovative approaches for enhancing physics education in schools.

FONDAMENTI DI MECCANICA CLASSICA

Maggioli Editore

IL SOGNO DEI FILOSOFI

Lulu.com

EXTERIOR BALLISTICS WITH APPLICATIONS

SKYDIVING, PARACHUTE FALL, FLYING FRAGMENTS

Xlibris Corporation Exterior Ballistics with Applications Skydiving, Parachute Fall, Flying Fragments presents a modern approach to introduce the basics of exterior ballistics and its methods from the simple ideal model of projectile motion to the automatic solution of the differential equations of projectile flight using PC programs. The book uses different approaches to solve the differential equations of projectile motion among them the Siacci method and the numerical methods. The results obtained through the integration of differential equations of projectile flight are mostly analytical formulas that describe the projectile trajectory and make the exterior ballistics a comprehensible science. The Differential Equations of Projectile Flight are also integrated numerically using some original PC programs that can be easily modified to be used in similar scenarios or other new ones and give the reader the possibility to solve a great variety of Exterior Ballistics problem. Exterior Ballistics with Applications can be considered as an interdisciplinary applied mathematics and physics manuscript for the vast mathematics and physics models and techniques employed. It is a great source for applications in physics, calculus, differential equations, numerical methods, and PC programming as well. The book is illustrated with about 140 solved examples related to different artillery and infantry firearms that demonstrate the use of formulas and the solution methods of ballistics to find the elements of projectile trajectories. Exterior Ballistics with Applications includes as well two interesting topics that can be considered as applications of exterior ballistics: 1. Skydiving and parachute falling related with the trajectory of a parachutist launched from a horizontally flying airplane with un-deployed parachute, in different meteorological conditions, and in presence of air resistance and wind. 2. The ballistics of projectile fragments that is an important element of Terminal Ballistics necessary to study the effectiveness of fragmentation ammunitions on the personnel and objects, and other problems related with the construction of fragmentation ammunitions, or with Forensic Sciences. Exterior Ballistics with Applications is comprehensive and serves as reference material to provide answers to problems encountered in the practice of motion of unguided projectiles, skydiving and flying fragments of antipersonnel ammunitions.

THE ABSOLUTE DIFFERENTIAL CALCULUS (CALCULUS OF TENSORS)

Courier Corporation Written by a distinguished mathematician, this classic examines the mathematical material necessary for a grasp of relativity theory. Covers introductory theories, fundamental quadratic forms, absolute differential calculus, and physical applications. 1926 edition.

IL DIAVOLO È NEI DETTAGLI

LOTTA AL TERRORISMO, RICORSO ALLA TORTURA, RUOLO DEI MEDICI

Lexis Se venissimo a sapere di un ordigno collocato in una delle stazioni della metropolitana di una città italiana, saremmo disposti a torturare un soggetto che, con elevate probabilità, potrebbe indicarne l'ubicazione? Chiederemmo a dei medici sia di collaborare all'interrogatorio perché la tortura abbia efficacia, sia di tutelare la vita del torturato, così che possa continuare a fornire le informazioni necessarie? Come conciliare l'esigenza di sicurezza e il rispetto della persona? In momenti di emergenza servono strumenti eccezionali? Possiamo ammettere un'etica per il tempo di pace e un'etica per il tempo di lotta al terrorismo, nome attuale della guerra? La tortura, così apparentemente lontana, si fa vicina, trova dimora anche tra di noi. Non è più scontato il suo rifiuto, nonostante la normativa internazionale la vieti senza eccezioni. Il volume analizza le argomentazioni a favore e contro la tortura, sia sotto il profilo generale che dal punto di vista del medico, figura paradigmatica nella sua doppia lealtà alla persona che ha promesso di curare e alla società di cui tutela gli interessi.

PRINCIPLES OF QUANTUM MECHANICS

Springer Science & Business Media R. Shankar has introduced major additions and updated key presentations in this second edition of Principles of Quantum Mechanics. New features of this innovative text include an entirely rewritten mathematical introduction, a discussion of Time-reversal invariance, and extensive coverage of a variety of path integrals and their applications. Additional highlights include: - Clear, accessible treatment of underlying mathematics - A review of Newtonian, Lagrangian, and Hamiltonian mechanics - Student understanding of quantum theory is enhanced by separate treatment of mathematical theorems and physical postulates - Unsurpassed coverage of path integrals and their relevance in contemporary physics The requisite text for advanced undergraduate- and graduate-level students, Principles of Quantum Mechanics, Second Edition is fully referenced and is supported by many exercises and solutions. The book's self-contained chapters also make it suitable for independent study as well as for courses in applied disciplines.

GLI STATI UNITI E IL RISORGIMENTO D'ITALIA

1848-1901. COLLANA NUOVO MILLENNIO

Gangemi Editore Spa Nel corso dell'Ottocento intellettuali, politici e combattenti per la libertà considerarono il Risorgimento un momento di importante trasformazione per le sorti del liberalismo e nella costruzione dello Stato-nazione. Tra costoro spiccavano di certo cittadini e rappresentanti degli Stati Uniti d'America che videro nel Risorgimento un'ideale continuazione del percorso liberal-repubblicano avviato con la guerra d'indipendenza americana. Questo volume prende in esame gli ultimi cinquant'anni del secolo nel contesto transnazionale, quando gli Stati Uniti rivolsero alle vicende italiane un'attenzione particolare che ha pochi eguali nella storia dei rapporti tra i due paesi. A seguire gli eventi e a coinvolgersi in essi non furono solo uomini di cultura e politici radicali ma anche gli apparati del governo federale e gli stessi funzionari di stanza in Europa. Il sacrificio di tanta gente comune insieme alle gesta di Garibaldi e alle sottigliezze di Cavour, attirarono un interesse che, come scrisse un diplomatico al culmine dell'esperienza della Repubblica romana del 1849, non consentiva di "rimanere spettatori indifferenti di fronte a una simile lotta".

PRINCIPI DI FISICA

APORIA

Youcanprint La battaglia di Canne è forse uno degli eventi della storia fra i più dibattuti e discussi. Questa battaglia, per una serie di complesse implicazioni di ordine topografico e cronologico nonché di strategia e tattica militare, ha da sempre appassionato molti studiosi, dando vita a una copiosa letteratura, dalla quale sono emerse incertezze e contraddizioni che hanno alimentato pareri contrastanti e persino dispute in merito all'esatta interpretazione delle fonti. Ciononostante, quello che accadde quel giorno è giunto fino ad oggi, mantenendo intatte le ombre che l'hanno avvolto sin dall'inizio. Aporia è un libro che pone in evidenza queste contraddizioni, riportando e analizzando quelle che sono le maggiori fonti letterarie che hanno trattato l'argomento, le "Storie" di Polibio e "Ab Urbe condita" di Tito Livio, ma non si limita solo ad uno sterile resoconto delle incertezze e delle contraddizioni, l'autore, infatti, in questo libro propone anche una sorta di viaggio che, attraverso il dubbio, giunga ad una alternativa ricostruzione dei fatti in grado di annullare le incertezze iniziali. Aporia è quindi un'attività di ricerca storica che segue un percorso pragmatico-filosofico, in cui l'autore, ponendosi in una posizione d'ignoranza, man mano acquisisce le informazioni di coloro che sono invece in una posizione di conoscenza, per poi analizzarle, elaborarle e formulare una tesi alternativa supportata dalle stesse informazioni.

PRINCIPLES OF LASERS

Springer This book is the result of more than ten years of research and teaching in the field of quantum electronics. The purpose of the book is to introduce the principles of lasers, starting from elementary notions of quantum mechanics and electromagnetism. Because it is an introductory book, an effort has been made to make it self contained to minimize the need for reference to other works. For the same reason; the references have been limited (whenever possible) either to review papers or to papers of seminal importance. The organization of the book is based on the fact that a laser can be thought of as consisting of three elements: (i) an active material, (ii) a pumping system, and (iii) a suitable resonator. Accordingly, after an introductory chapter, the next three chapters deal, respectively, with the interaction of radiation with matter, pumping processes, and the theory of passive optical resonators.

IL RISCHIO

ASPETTI TECNICI, SOCIALI, ETICI

Armando Editore

LEARNING AND LIVING. ABITARE LO STUDENT HOUSING

ABITARE LO STUDENT HOUSING

FrancoAngeli 1330.93

DIVERSITY MANAGEMENT: NUOVE FRONTIERE DELL'INCLUSIONE E SFIDE PER I C.U.G. UNIVERSITARI

FedOA - Federico II University Press [Italiano]: Un altro tassello del Progetto Trotula avviato oramai da diversi anni dal Comitato Unico di Garanzia per le pari opportunità, la valorizzazione del benessere di chi lavora e contro le discriminazioni (C.U.G.) dell'Università degli Studi di Napoli Federico II: dopo il Convegno Nazionale che ha riunito gli Organismi di Parità universitari di tutta Italia, organizzato a dicembre 2019, ne pubblichiamo ora gli Atti, che abbiamo voluto fossero tempestivi, data la stringente attualità dei temi, alcuni dei quali (come ad esempio il lavoro a distanza o l'impegno profuso in ambito sanitario) persino cruciali nell'emergenza Covid-19, che stiamo affrontando. Consci che si tratta soltanto di un primo passo nello svolgimento di un percorso che sarà lungo, siamo felici di presentare qui le tante voci di una Comunità universitaria - che si interroga con il territorio sulle diverse modulazioni della cultura delle differenze, attuali e future - serie, pronte, appassionate, consapevoli ./[English]: Francesca Galgano, University of Naples Federico II Francesca Galgano is Professor of History of Roman Law at Federico II University in Naples. Member of editing committees and scientific boards of many international law journals and book series, she is author of several publications on Roman Family Law, Minors and family; Byzantine Law; History of Pontifical Law Sources. Since 2014 she is member of the Equal Opportunities Committee, at Federico II University in Naples. Maria Sarah Papillo, University of Salerno Maria Sarah Papillo is a PhD student at the University of Salerno after graduating in Law with honors at the University Federico II in Naples. She collaborates with numerous Italian and foreign reviews on Roman law.

THE SOILS OF ITALY

Springer Science & Business Media The Soils of Italy is the first comprehensive book on Italian pedology in seventy years. Taking advantage of the authors' large experience and of the most up-to-date information and technology, this book treats the main soil types of Italy, their diffusion, their functions, ecological use, and the threats to which they are subjected during centuries of intensive management. It also deals with future scenarios of the relationships between soil science and other disciplines, such as urban development, medicine, economics, sociology, and archaeology. The description of the soils is accompanied by a complete set of data, pictures and maps, including benchmark profiles. Factors of soil formation are also treated, making use of new, unpublished data and elaborations. The book also includes a history of pedological research in Italy, spanning over a century.

APPUNTI DI MECCANICA ANALITICA

Passerino Editore Le equazioni di Eulero-Lagrange e le equazioni di Hamilton Formalismo Lagrangiano Formalismo Hamiltoniano Spazio delle fasi - Teorema di Liouville Calcolo variazionale - Equazione di Eulero-Casi particolari Variazione prima di J(y) Principio di Ostrogradskij-Hamilton Invariante integrale di Poincare-Cartan Definizioni e proprietà generali Interpretazione fisica dell'invariante integrale di Poincare-Cartan Marcello Colozzo, laureato in Fisica si occupa sin dal 2008 di didattica online di Matematica e Fisica attraverso il sito web Extra Byte dove vengono eseguite "simulazioni" nell'ambiente di calcolo Mathematica. Negli ultimi anni ha pubblicato vari articoli di fisica matematica e collabora con la rivista Elettronica Open Source. Appassionato lettore di narrativa cyberpunk, ha provato ad eseguire una transizione verso lo stato di "scrittore cyber", pubblicando varie antologie di racconti.

QUANTUM MECHANICS, VOLUME 1

BASIC CONCEPTS, TOOLS, AND APPLICATIONS

John Wiley & Sons This new edition of the unrivalled textbook introduces the fundamental concepts of quantum mechanics such as waves, particles and probability before explaining the postulates of quantum mechanics in detail. In the proven didactic manner, the textbook then covers the classical scope of introductory quantum mechanics, namely simple two-level systems, the one-dimensional harmonic oscillator, the quantized angular momentum and particles in a central potential. The entire book has been revised to take into account new developments in quantum mechanics curricula. The textbook retains its typical style also in the new edition: it explains the fundamental concepts in chapters which are elaborated in accompanying complements that provide more detailed discussions, examples and applications. * The quantum mechanics classic in a new edition: written by 1997 Nobel laureate Claude Cohen-Tannoudji and his colleagues Bernard Diu and Franck Laloë * As easily comprehensible as possible: all steps of the physical background and its mathematical representation are spelled out explicitly * Comprehensive: in addition to the fundamentals themselves, the book contains more than 350 worked examples plus exercises Claude Cohen-Tannoudji was a researcher at the Kastler-Brossel laboratory of the Ecole Normale Supérieure in Paris where he also studied and received his PhD in 1962. In 1973 he became Professor of atomic and molecular physics at the Collège des France. His main research interests were optical pumping, quantum optics and atom-photon interactions. In 1997, Claude Cohen-Tannoudji, together with Steven Chu and William D. Phillips, was awarded the Nobel Prize in Physics for his research on laser cooling and trapping of neutral atoms. Bernard Diu was Professor at the Denis Diderot University (Paris VII). He was engaged in research at the Laboratory of Theoretical Physics and High Energy where his focus was on strong interactions physics and statistical mechanics. Franck Laloë was a researcher at the Kastler-Brossel laboratory of the Ecole Normale Supérieure in Paris. His first assignment was with the University of Paris VI before he was appointed to the CNRS, the French National Research Center. His research was focused on optical pumping, statistical mechanics of quantum gases, musical acoustics and the foundations of quantum mechanics.

L'ELETTROTECNICA

FUNDAMENTALS OF PHYSICS, , CHAPTERS 1 TO 22

Wiley

CATALOGO CUMULATIVO 1886-1957 DEL BOLLETTINO DELLE PUBBLICAZIONI ITALIANE RICEVUTE PER DIRITTO DI STAMPA DALLA BIBLIOTECA NAZIONALE CENTRALE DI FIRENZE

VIA SINDONIS

LA PASSIONE DI CRISTO DOCUMENTATA DAL SACRO LINO

Edizioni Ares Una disamina completa e puntuale che mette a confronto le modalità della flagellazione e della crocifissione romana, gli usi funerari giudaici, fino ad arrivare alle più recenti ricerche scientifiche, attraverso gli apporti di due grandi sindonologi: il dott. Carlo Goldoni, ematologo, i cui studi si concentrano sugli aspetti medico-legali, e il prof. Gino Zaninotto, storico, latinista e grecista, sull'analisi delle fonti. Nella seconda parte, un raffronto fra quanto riscontrato nella Sindone e ciò che è raccontato dai quattro Vangeli, per provare a rispondere alla domanda che tutti, anche se in modi diversi, si pongono: l'Uomo della Sindone è Gesù? Tutti gli indizi raccolti propendono verso una risposta positiva e portano una riflessione sull'importanza di far conoscere la Sindone come documento della Passione di Cristo. Il testo è corredato da appendici e da immagini inedite della Via Crucis secondo la Sindone.

PRINCIPLES OF PHYSICS

A CALCULUS APPROACH

INDEX FOR INCLUSION

DEVELOPING LEARNING AND PARTICIPATION IN SCHOOLS

QUANTUM MECHANICS, VOLUME 3

FERMIONS, BOSONS, PHOTONS, CORRELATIONS, AND ENTANGLEMENT

John Wiley & Sons This new, third volume of Cohen-Tannoudji's groundbreaking textbook covers advanced topics of quantum mechanics such as uncorrelated and correlated identical particles, the quantum theory of the electromagnetic field, absorption, emission and scattering of photons by atoms, and quantum entanglement. Written in a didactically unrivalled manner, the textbook explains the fundamental concepts in seven chapters which are elaborated in accompanying complements that provide more detailed discussions, examples and applications. * Completing the success story: the third and final volume of the quantum mechanics textbook written by 1997 Nobel laureate Claude Cohen-Tannoudji and his colleagues Bernard Diu and Franck Laloë * As easily comprehensible as possible: all steps of the physical background and its mathematical representation are spelled out explicitly * Comprehensive: in addition to the fundamentals themselves, the books comes with a wealth of elaborately explained examples and applications Claude Cohen-Tannoudji was a researcher at the Kastler-Brossel laboratory of the Ecole Normale Supérieure in Paris where he also studied and received his PhD in 1962. In 1973 he became Professor of atomic and molecular physics at the Collège des France. His main research interests were optical pumping, quantum optics and atom-photon interactions. In 1997, Claude Cohen-Tannoudji, together with Steven Chu and William D. Phillips, was awarded the Nobel Prize in Physics for his research on laser cooling and trapping of neutral atoms. Bernard Diu was Professor at the Denis Diderot University (Paris VII). He was engaged in research at the Laboratory of Theoretical Physics and High Energy where his focus was on strong interactions physics and statistical mechanics. Franck Laloë was a researcher at the Kastler-Brossel laboratory of the Ecole Normale Supérieure in Paris. His first assignment was with the University of Paris VI before he was appointed to the CNRS, the French National Research Center. His research was focused on optical pumping, statistical mechanics of quantum gases, musical acoustics and the foundations of quantum mechanics.

THE INVENTION OF AFRICA: GNOSIS, PHILOSOPHY, AND THE ORDER OF KNOWLEDGE

Lulu Press, Inc "... groundbreaking... clear, straightforward, and economical.... seminal... " —American Anthropologist "This is a challenging book... a remarkable contribution to African intellectual history." —International Journal of African Historical Studies "Mudimbe's description of the struggles over Africa's self-invention are vivid and rewarding. From Blyden to Sartre, Temples to Senghor, Mudimbe provides a bold and versatile resume of Africa's literary inventors." —Village Voice Literary Supplement "... a landmark achievement in African studies." —Journal of Religion in Africa In this unique and provocative book, Zairean philosopher and writer V. Y. Mudimbe addresses the multiple scholarly discourses that exist—African and non-African—concerning the meaning of Africa and being African.

MEASURING VULNERABILITY TO NATURAL HAZARDS

TOWARDS DISASTER RESILIENT SOCIETIES

The Energy and Resources Institute (TERI) Measuring Vulnerability to Natural Hazards presents a broad range of current approaches to measuring vulnerability. It provides a comprehensive overview of different concepts at the global, regional, national, and local levels,

and explores various schools of thought. More than 40 distinguished academics and practitioners analyse quantitative and qualitative approaches, and examine their strengths and limitations. This book contains concrete experiences and examples from Africa, Asia, the Americas and Europe to illustrate the theoretical analyses. The authors provide answers to some of the key questions on how to measure vulnerability and they draw attention to issues with insufficient coverage, such as the environmental and institutional dimensions of vulnerability and methods to combine different methodologies. This book is a unique compilation of state-of-the-art vulnerability assessment and is essential reading for academics, students, policy makers, practitioners, and anybody else interested in understanding the fundamentals of measuring vulnerability. It is a critical review that provides important conclusions which can serve as an orientation for future research towards more disaster resilient communities.

FUNDAMENTALS OF PHYSICS

QUANTUM MECHANICS

John Wiley & Sons This didactically unrivalled textbook and timeless reference by Nobel Prize Laureate Claude Cohen-Tannoudji separates essential underlying principles of quantum mechanics from specific applications and practical examples and deals with each of them in a different section. Chapters emphasize principles; complementary sections supply applications. The book provides a qualitative introduction to quantum mechanical ideas; a systematic, complete and elaborate presentation of all the mathematical tools and postulates needed, including a discussion of their physical content and applications. The book is recommended on a regular basis by lecturers of undergraduate courses.

FISICA PER SCIENZE E INGEGNERIA

THE EYES OF DARKNESS

Berkley Publishing Group A masterwork of suspense from the #1 New York Times bestselling author. Tina Evans can think of no better time for a fresh start. It's been a year of unbelievable heartache since her son Danny's death. Now the Vegas show that she directed is about to premiere, so she vows to put her grief behind her. Only there is a message for Tina, scrawled on the chalkboard in Danny's room. Two words that will send Tina on a terrifying journey...NOT DEAD.

MODERN PHYSICS

Worth Pub For the intermediate-level course, the Fifth Edition of this widely used text takes modern physics textbooks to a higher level. With a flexible approach to accommodate the various ways of teaching the course (both one- and two-term tracks are easily covered), the authors recognize the audience and its need for updated coverage, mathematical rigor, and features to build and support student understanding. Continued are the superb explanatory style, the up-to-date topical coverage, and the Web enhancements that gained earlier editions worldwide recognition. Enhancements include a streamlined approach to nuclear physics, thoroughly revised and updated coverage on particle physics and astrophysics, and a review of the essential Classical Concepts important to students studying Modern Physics.

IN OTHER WORDS

A COURSEBOOK ON TRANSLATION

Routledge In Other Words is the definitive coursebook for anyone studying translation. Assuming no knowledge of foreign languages, it offers both a practical and theoretical guide to translation studies, and provides an important foundation for training professional translators. Drawing on modern linguistic theory, this best-selling text provides a solid base to inform and guide the many key decisions trainee translators have to make. Each chapter offers an explanation of key concepts, identifies potential sources of translation difficulties related to those concepts, and illustrates various strategies for resolving these difficulties. Authentic examples of translated texts from a wide variety of languages are examined, and practical exercises and further reading are included at the end of each chapter. The second edition has been fully revised to reflect recent developments in the field and new features include: A new chapter that addresses issues of ethics and ideology, in response to increased pressures on translators and interpreters to demonstrate accountability and awareness of the social impact of their decisions. Examples and exercises from new genres such as audiovisual translation, scientific translation, oral interpreting, website translation, and news/media translation. New project-driven exercises designed to support MA dissertation work Updated references and further reading. A companion website featuring further examples and tasks Written by Mona Baker, a leading international figure in the field, this key text is the essential coursebook for any student of translation studies.

EXTENDED THERMODYNAMICS

Springer Science & Business Media Physicists firmly believe that the differential equations of nature should be hyperbolic so as to exclude action at a distance; yet the equations of irreversible thermodynamics - those of Navier-Stokes and Fourier - are parabolic. This incompatibility between the expectation of physicists and the classical laws of thermodynamics has prompted the formulation of extended thermodynamics. After describing the motifs and early evolution of this new branch of irreversible thermodynamics, the authors apply the theory to mon-atomic gases, mixtures of gases, relativistic gases, and "gases" of phonons and photons. The discussion brings into perspective the various phenomena called second sound, such as heat propagation, propagation of shear stress and concentration, and the second sound in liquid helium. The formal mathematical structure of extended thermodynamics is exposed and the theory is shown to be fully compatible with the kinetic theory of gases. The study closes with the testing of extended thermodynamics through the exploitation of its predictions for measurements of light scattering and sound propagation.

COMENTARIOS A LA LEY 11/2021, DE 9 DE JULIO, DE MEDIDAS DE PREVENCIÓN Y LUCHA CONTRA EL FRAUDE FISCAL

ARANZADI / CIVITAS La promulgación de la Ley 11/2021, de 9 de julio de medidas de prevención y lucha contra el fraude fiscal, ha introducido modificaciones de gran calado en la normativa tributaria así como en otras leyes que inciden en el conjunto de relaciones económicas (limitaciones en los pagos en efectivo, blanqueo de capitales y economía sumergida). A través de un análisis riguroso, la obra comentada por Inspectores de Hacienda, académicos y abogados de la práctica tributaria, se detiene en los importantes cambios operados en los principales impuestos de nuestro sistema tributario (estatal, autonómico y local) y en la esfera de los procedimientos tributarios. Asimismo, se recoge la incidencia práctica del novedoso "valor de referencia" en los distintos tributos a los que afecta directa e indirectamente.

MODERN QUANTUM MECHANICS

Cambridge University Press A comprehensive and engaging textbook, providing a graduate-level, non-historical, modern introduction of quantum mechanical concepts.

MATHEMATICAL CHALLENGES FROM THEORETICAL/COMPUTATIONAL CHEMISTRY

National Academies Press Computational methods are rapidly becoming major tools of theoretical, pharmaceutical, materials, and biological chemists. Accordingly, the mathematical models and numerical analysis that underlie these methods have an increasingly important and direct role to play in the progress of many areas of chemistry. This book explores the research interface between computational chemistry and the mathematical sciences. In language that is aimed at non-specialists, it documents some prominent examples of past successful cross-fertilizations between the fields and explores the mathematical research opportunities in a broad cross-section of chemical research frontiers. It also discusses cultural differences between the two fields and makes recommendations for overcoming those differences and generally promoting this interdisciplinary work.

NETWORKED

THE NEW SOCIAL OPERATING SYSTEM

MIT Press How social networks, the personalized Internet, and always-on mobile connectivity are transforming—and expanding—social life. Daily life is connected life, its rhythms driven by endless email pings and responses, the chimes and beeps of continually arriving text messages, tweets and retweets, Facebook updates, pictures and videos to post and discuss. Our perpetual connectedness gives us endless opportunities to be part of the give-and-take of networking. Some worry that this new environment makes us isolated and lonely. But in *Networked*, Lee Rainie and Barry Wellman show how the large, loosely knit social circles of networked individuals expand opportunities for learning, problem solving, decision making, and personal interaction. The new social operating system of “networked individualism” liberates us from the restrictions of tightly knit groups; it also requires us to develop networking skills and strategies, work on maintaining ties, and balance multiple overlapping networks. Rainie and Wellman outline the “triple revolution” that has brought on this transformation: the rise of social networking, the capacity of the Internet to empower individuals, and the always-on connectivity of mobile devices. Drawing on extensive evidence, they examine how the move to networked individualism has expanded personal relationships beyond households and neighborhoods; transformed work into less hierarchical, more team-driven enterprises; encouraged individuals to create and share content; and changed the way people obtain information. Rainie and Wellman guide us through the challenges and opportunities of living in the evolving world of networked individuals.

COLLEGE PHYSICS

Pearson Higher Ed For more than five decades, Sears and Zemansky's College Physics has provided the most reliable foundation of physics education for students around the world. The Ninth Edition continues that tradition with new features that directly address the demands on today's student and today's classroom. A broad and thorough introduction to physics, this new edition maintains its highly respected, traditional approach while implementing some new solutions to student difficulties. Many ideas stemming from educational research help students develop greater confidence in solving problems, deepen conceptual understanding, and strengthen quantitative-reasoning skills, while helping them connect what they learn with their other courses and the changing world around them. Math review has been expanded to encompass a full chapter, complete with end-of-chapter questions, and in each chapter biomedical applications and problems have been added along with a set of MCAT-style passage problems. Media resources have been strengthened and linked to the Pearson eText, MasteringPhysics®, and much more. This package contains: College Physics, Ninth Edition

VISUALISING FACEBOOK

A COMPARATIVE PERSPECTIVE

UCL Press Since the growth of social media, human communication has become much more visual. This book presents a scholarly analysis of the images people post on a regular basis to Facebook. By including hundreds of examples, readers can see for themselves the differences between postings from a village north of London, and those from a small town in Trinidad. Why do women respond so differently to becoming a mother in England from the way they do in Trinidad? How are values such as carnival and suburbia expressed visually? Based on an examination of over 20,000 images, the authors argue that phenomena such as selfies and memes must be analysed in their local context. The book aims to highlight the importance of visual images today in patrolling and controlling the moral values of populations, and explores the changing role of photography from that of recording and representation, to that of communication, where an image not only documents an experience but also enhances it, making the moment itself more exciting.

DIGITAL ANTHROPOLOGY

Taylor & Francis Anthropology has two main tasks: to understand what it is to be human and to examine how humanity is manifested differently in the diversity of culture. These tasks have gained new impetus from the extraordinary rise of the digital. This book brings together several key anthropologists working with digital culture to demonstrate just how productive an anthropological approach to the digital has already become. Through a range of case studies from Facebook to Second Life to Google Earth, *Digital Anthropology* explores how human and digital can be defined in relation to one another, from avatars and disability; cultural differences in how we use social networking sites or practise religion; the practical consequences of the digital for politics, museums, design, space and development to new online world and gaming communities. The book also explores the moral universe of the digital, from new anxieties to open-source ideals. *Digital Anthropology* reveals how only the intense scrutiny of ethnography can overturn assumptions about the impact of digital culture and reveal its profound consequences for everyday life. Combining the clarity of a textbook with an engaging style which conveys a passion for these new frontiers of enquiry, this book is essential reading for students and scholars of anthropology, media studies, communication studies, cultural studies and sociology.