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Emerging Technologies for STEAM Education

Full STEAM Ahead

Springer This theory-to-practice guide offers leading-edge ideas for wide-scale curriculum reform in sciences, technology, engineering, the arts, and mathematics--the STEAM subjects. Chapters emphasize the critical importance of current and emerging digital technologies in bringing STEM education up to speed and implementing changes to curricula at the classroom level. Of particular interest are the diverse ways of integrating the liberal arts into STEM course content in mutually reshaping humanities education and scientific education. This framework and its many instructive examples are geared to ensure that both educators and students can become innovative thinkers and effective problem-solvers in a knowledge-based society. Included in the coverage: Reconceptualizing a college science learning experience in the new digital era. Using mobile devices to support formal, informal, and semi-formal learning. Change of attitudes, self-concept, and team dynamics in engineering education. The language arts as foundational for science, technology, engineering, art, and mathematics. Can K-12 math teachers train students to make valid logical reasoning? Moving forward with STEAM education research. Emerging Technologies for STEAM Education equips educators, education researchers, administrators, and education policymakers with curricular and pedagogical strategies for making STEAM education the bedrock of accessible, relevant learning in keeping with today's digital advances.

The Fourth Industrial Revolution

Currency World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that have come before. Characterized by a range of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine "smart factories" in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more profound, than in any prior period of human history. He outlines the key technologies driving this revolution and discusses the major impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future—one in which technology empowers people rather than replaces them; progress serves society rather than disrupts it; and in which innovators respect moral and ethical boundaries rather than cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

IUTAM Symposium on Physics and Mechanics of Sea Ice

Proceedings of the IUTAM Symposium held at Aalto University, Espoo, Finland, 3-9 June 2019

Springer Nature This book presents the results of the IUTAM Symposium on Physics and Mechanics of Sea Ice which brought together researchers who have made significant contributions in the study of sea ice. The topics include: Fracture of ice, Thermodynamics of sea ice ridges, Global and local ice loads on ships and marine structures, Computational ice engineering and ice mechanics; and Physical and engineering problems related to ice and waves.

University Physics

University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project. **VOLUME I** Unit 1: Mechanics Chapter 1: Units and Measurement Chapter 2: Vectors Chapter 3: Motion Along a Straight Line Chapter 4: Motion in Two and Three Dimensions Chapter 5: Newton's Laws of Motion Chapter 6: Applications of Newton's Laws Chapter 7: Work and Kinetic Energy Chapter 8: Potential Energy and Conservation of Energy Chapter 9: Linear Momentum and Collisions Chapter 10: Fixed-Axis Rotation Chapter 11: Angular Momentum Chapter 12: Static Equilibrium and Elasticity Chapter 13: Gravitation Chapter 14: Fluid Mechanics Unit 2: Waves and Acoustics Chapter 15: Oscillations Chapter 16: Waves Chapter 17: Sound

Physics in Nuclear Medicine

Elsevier Health Sciences **Physics in Nuclear Medicine** - by Drs. Simon R. Cherry, James A. Sorenson, and Michael E. Phelps - provides current, comprehensive guidance on the physics underlying modern nuclear medicine and imaging using radioactively labeled tracers. This revised and updated fourth edition features a new full-color layout, as well as the latest information on instrumentation and technology. Stay current on crucial developments in hybrid imaging (PET/CT and SPECT/CT), and small animal imaging, and benefit from the new section on tracer kinetic modeling in neuroreceptor imaging. What's more, you can reinforce your understanding with graphical animations online at www.expertconsult.com, along with the fully searchable text and calculation tools. Master the physics of nuclear medicine with thorough explanations of analytic equations and illustrative graphs to make them accessible. Discover the technologies used in state-of-the-art nuclear medicine imaging systems Fully grasp the process of emission computed tomography with advanced mathematical concepts presented in the appendices. Utilize the extensive data in the day-to-day practice of nuclear medicine practice and research. Tap into the expertise of Dr. Simon Cherry, who contributes his cutting-edge knowledge in nuclear medicine instrumentation. Stay current on the latest developments in nuclear medicine technology and methods New sections to learn about hybrid imaging (PET/CT and SPECT/CT) and small animal imaging. View graphical animations online at www.expertconsult.com, where you can also access the fully searchable text and calculation tools. Get a better view of images and line art and find information more easily thanks to a brand-new, full-color layout. The perfect reference or textbook to comprehensively review physics principles in nuclear medicine.

Unsettled

What Climate Science Tells Us, What It Doesn't, and Why It Matters

BenBella Books "Unsettled is a remarkable book—probably the best book on climate change for the intelligent layperson—that achieves the feat of conveying complex information clearly and in depth." —Claremont Review of Books "Surging sea levels are inundating the coasts." "Hurricanes and tornadoes are becoming fiercer and more frequent." "Climate change will be an economic disaster." You've heard all this presented as fact. But according to science, all of these statements are profoundly misleading. When it comes to climate change, the media, politicians, and other prominent voices have declared that "the science is settled." In reality, the long game of telephone from research to reports to the popular media is corrupted by misunderstanding and misinformation. Core questions—about the way the climate is responding to our influence, and what the impacts will be—remain largely unanswered. The climate is changing, but the why and how aren't as clear as you've probably been led to believe. Now, one of America's most distinguished scientists is clearing away the fog to explain what science really says (and doesn't say) about our changing climate. In *Unsettled: What Climate Science Tells Us, What It Doesn't, and Why It Matters*, Steven Koonin draws upon his decades of experience—including as a top science advisor to the Obama administration—to provide up-to-date insights and expert perspective free

from political agendas. Fascinating, clear-headed, and full of surprises, this book gives readers the tools to both understand the climate issue and be savvier consumers of science media in general. Koonin takes readers behind the headlines to the more nuanced science itself, showing us where it comes from and guiding us through the implications of the evidence. He dispels popular myths and unveils little-known truths: despite a dramatic rise in greenhouse gas emissions, global temperatures actually decreased from 1940 to 1970. What's more, the models we use to predict the future aren't able to accurately describe the climate of the past, suggesting they are deeply flawed. Koonin also tackles society's response to a changing climate, using data-driven analysis to explain why many proposed "solutions" would be ineffective, and discussing how alternatives like adaptation and, if necessary, geoengineering will ensure humanity continues to prosper. Unsettled is a reality check buoyed by hope, offering the truth about climate science that you aren't getting elsewhere—what we know, what we don't, and what it all means for our future.

University Physics

"University Physics is a three-volume collection that meets the scope and sequence requirements for two- and three-semester calculus-based physics courses. Volume 1 covers mechanics, sound, oscillations, and waves. This textbook emphasizes connections between theory and application, making physics concepts interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. Frequent, strong examples focus on how to approach a problem, how to work with the equations, and how to check and generalize the result."--Open Textbook Library.

The Standard Model in the Making

Precision Study of the Electroweak Interactions

Oxford University Press The Standard Model is an important theory in particle physics, which unifies the theories of electromagnetic and weak interactions in atomic particles. Much work has been done over the past decade on testing the truth of this theory, and one important testing ground is the e+e- collision experiment. In this book the authors describe the predictions of the Standard Model relating to these experiments, summarizing the important developments so far and paving the way for experiments at higher energies.

Simply Electrifying

The Technology that Transformed the World, from Benjamin Franklin to Elon Musk

BenBella Books Selected for J.P. Morgan's 2018 Holiday Reading List Imagine your life without the internet. Without phones. Without television. Without sprawling cities. Without the freedom to continue working and playing after the sun goes down. Electricity is at the core of all modern life. It has transformed our society more than any other technology. Yet, no book offers a comprehensive history about this technological marvel. Until now. *Simply Electrifying: The Technology that Transformed the World, from Benjamin Franklin to Elon Musk* brings to life the 250-year history of electricity through the stories of the men and women who used it to transform our world: Benjamin Franklin, James Watt, Michael Faraday, Samuel F.B. Morse, Thomas Edison, Samuel Insull, Albert Einstein, Rachel Carson, Elon Musk, and more. In the process, it reveals for the first time the complete, thrilling, and often-dangerous story of electricity's historic discovery, development, and worldwide application. Electricity plays a fundamental role not only in our everyday lives but in history's most pivotal events, from global climate change and the push for wind- and solar-generated electricity to Japan's nuclear accident at Fukushima and Iran's pursuit of nuclear weapons. Written by electricity expert and four-decade veteran of the industry Craig R. Roach, *Simply Electrifying* marshals, in fascinating narrative detail, the full range of factors that shaped the electricity business over time—science, technology, law, politics, government regulation, economics, business strategy, and culture—before looking forward toward the exhilarating prospects for electricity generation and use that will shape our future.

Government Reports Annual Index

Pole Story

Essays on the Power of Erotic Dance

Pole Story Pole dancing is revolutionizing the way in which women relate to sex and their bodies. It has empowered many women through physical fitness and sensual movement. And yet the psychology behind this empowerment has not really been well defined or well understood by many people. This book is the first of its kind to capture and explore these issues. It has the potential to encourage people to examine their prejudices about pole dancing and female sexuality, and to cast the art of pole dancing in an entirely new light.

My Vietnam War

H.O.T. Press Publishing Writers have been writing about war since the siege of Troy, but few, if any, have captured the first-person experience of war as deeply as *My Vietnam War*. Set in 1967 (the deadliest year of the Vietnam War), this memoir-style novel depicts the psychological journey of a young man whose carefree days of studying philosophy at the university are ended by the draft. The story follows him from his initial rear-echelon assignment in Saigon, where he falls for a mysterious storytelling bar girl, to his eventual posting at an isolated front-line firebase in one of the deepest parts of the Vietnam jungle. While recovering from a leg wound (he is hit by a piece of bone from a fellow soldier who stepped on a booby trap mine), he becomes the assistant medic and sees the horrors of war close up. The experience begins his steady spiral down into PTSD. After he is seriously wounded, he ends up back in Saigon where, after an old friend from Arizona gets him involved in the underground drug trade, the mysterious bar girl may be his only hope for salvation. It is a powerful story, well-written, with vivid detail that you will never forget.

Yearbook of International Organizations 2014-2015

International Organization Bibliography and Resources

Yearbook of International Orga Providing both an international organizations and research bibliography, Volume 4 cites over 46,000 publications and information resources supplied by international organizations, and provides nearly 18,000 research citations under 40 subject headings. This volume also includes a research bibliography on international organizations and transnational associations.

Don't go there. It's not safe. You'll die. And other more >> rational advice for overlanding Mexico & Central America

Life Remotely

Nuclear Medicine Physics

A Handbook for Teachers and Students

This publication provides the basis for the education of medical physicists initiating their university studies in the field of nuclear medicine. The handbook includes 20 chapters and covers topics relevant to nuclear medicine physics, including basic physics for nuclear medicine, radionuclide production, imaging and non-imaging detectors, quantitative nuclear medicine, internal dosimetry in clinical practice and radionuclide therapy. It provides, in the form of a syllabus, a comprehensive overview of the basic medical physics knowledge required for the practice of medical physics in modern nuclear medicine.

Against the Heathen

Fig

Relativity: The Special and General Theory

Diamond Pocket Books Pvt Ltd **Albert Einstein**, a Nobel laureate, has changed the world with his research and theories. He is regarded as the founder of modern physics. Besides 'Relativity', he worked on Photoelectric effect, Brownian motion, Special relativity, and Mass-Energy equivalence ($E=mc^2$). They reformed the views on time, space and matter. Allert Einstein developed the general theory of 'Relativity'. He published 'Relativity: The Special and the General Theory' in German. Its first English translation was published in 1920. The book deals with the special theory of relativity, the general theory of relativity, and the considerations on the universe as a whole. The book gives an exact insight into the theory of Relativity. It covers, the system of Co-ordinates; The Lorentz Transformation; The experiment of Fizeau; Minkowski's four dimensional space; The Gravitational Field; Gaussian Co-ordinates; The structure of space, and lot many other scientific concepts thus will be highly beneficial to the Readers. A must have book for everyone related to modern physics.

The Purposed Bride

Threestrands Your wedding day is undoubtedly one of the most magical experiences in your lifetime. Whether you have been dreaming of it since you were a little girl or your wedding thoughts have just now begun, planning with purpose will help to make your wedding experience unregrettable and unforgettable. What God-given purposes do you have that shape your decision-making process? What lurking, sinful purposes need to be confessed and addressed in order to avoid stress and hurt? The Purposed Bride guides you in determining your wedding goals and the motivations behind them. Once your wedding purposes are identified, The Purposed Bride will lead you closer to finding God's will for your wedding by providing Bible-based insight on aspects of wedding planning and by encouraging you to pray through each decision. The Purposed Bride is a perfect companion to your favorite practical wedding-planning guide. From managing your wedding-season relationships and planning the event's particulars to preparing a life with your fiancé, The Purposed Bride offers a Scriptural principle, a Bible-based discussion, a practical activity, and a relevant prayer for each wedding topic. Using personal anecdotes both from recent brides, The Purposed Bride provides "snapshots" from real weddings to inspire you in what to do (Perfect Pictures) and in what not to do (Problem Pictures). With the help of The Purposed Bride, your wedding will be well on its way to being an intentional, fruitful experience of worship designed in God's image and in your unique personality.

Molecular Biology of the Cell 6E - The Problems Book

Garland Science The Problems Book helps students appreciate the ways in which experiments and simple calculations can lead to an understanding of how cells work by introducing the experimental foundation of cell and molecular biology. Each chapter reviews key terms, tests for understanding basic concepts, and poses research-based problems. The Problems Book has be

Antarctic Journal of the United States

If Teapots Could Talk

Fun Ideas for Tea Parties

Blue Sage Press More than 60 recipes for making all the delectable treats you'll need for an afternoon tea party, including scrumptious scones, dainty tea sandwiches, savory appetizers, tea time sweets and the perfect pot of tea. Fifteen creative theme party ideas with suggestions for: invitations, games and activities, decorations, menu choices and party favors. Get out those teapots and create fond memories of lively conversation and laughter and fun.

Scientific American

Scientific and Technical Aerospace Reports

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

The Pharmaceutical Journal and Pharmacist

Windows to Our Children

A Gestalt Therapy Approach to Children and Adolescents

Fabricate

Rethinking Design and Construction

UCL Press Bringing together pioneers in design and making within architecture, construction, engineering, manufacturing, materials technology and computation, Fabricate is a triennial international conference, now in its third year (ICD, University of Stuttgart, April 2017). The 2017 edition features 32 illustrated articles on built projects and works in progress from academia and practice, including contributions from leading practices such as Foster + Partners, Zaha Hadid Architects, Arup, and Ron Arad, and from world-renowned institutions including ICD Stuttgart, Harvard, Yale, MIT, Princeton University, The Bartlett School of Architecture (UCL) and the Architectural Association. Each year it produces a supporting publication, to date the only one of its kind specialising in Digital Fabrication.

Report of the National Reading Panel : Teaching Children to Read : an Evidence-based Assessment of the Scientific Research Literature on Reading and Its Implications for Reading Instruction

The Athenaeum

Journal of Literature, Science and the Fine Arts

Physical Science

Questions and Answers

Passbooks The DSST Subject Standardized Tests are comprehensive college and graduate level examinations given by the Armed Forces, colleges and graduate schools. These exams enable students to earn college credit for what they have learned through self-study, on the job, or by other non-traditional means. The DSST Physical Science Passbook® prepares candidates for the DSST exam, which enables schools to award credit for knowledge acquired outside the normal classroom environment. It provides a series of informational texts as well as hundreds of questions and answers in the areas that will likely be covered on your upcoming exam, including but not limited to: physics; electricity and magnetism; matter; chemical reactions; atomic structure; and more.

The Covington Witches

Part One

Black, Brown and Beige Publishing Imara Covington has always known that she comes from a family of strong women. Only after an unexpected journey to the quaint town of Edenton, North Carolina, do the family secrets begin to unravel. Once she thought of her family as her safety net and her home as a haven, but now Imara is forced to confront the long buried secrets that are at the center of her family's strength. Part one introduces us to Imara Covington, a successful caterer who loves her work almost as much as she loves her family. What Imara doesn't know is that she comes from a family of witches and this installment starts the story of discovery for Imara. Delve into the creepy world of The Covington Witches, today. This serialized novel is a great, quick read.

Cuffy's New York City Adventure

Eifrig Pub Venturing through life with his stuffed animal companion and seeing the world from beneath the rim of his favorite red cap, Spencer wonders at the amazing sights of New York City when tipping his cap to broaden his view, in a sumptuously illustrated story that features the stuffed animal hiding in each spread. Simultaneous.

Keywords Index to U.S. Government Technical Reports

Dead Extra

A-State Department of Sustainability

Software Applications in Business Project

Steven Reynolds A-State Department of Sustainability: Software Applications in Business Project A-State Department of Sustainability is a fictional organization in which the student works as the Executive Assistant. The project consists of 28 workdays (June 1 - July 8) during which students complete the following tasks: Create and update spreadsheets, databases, charts, graphs, an organizational chart and Gantt Chart; write business letters, memos, emails, a slogan, and press release; design a letterhead, brochure, advertisement, flyer, t-shirt, web site and blog; organize a global conference and conduct problem solving. Instructors may assign tutorials for software as needed. Tutorials are not included in the text. All assignments refer to "spreadsheet, database, word processing, ect." so the instructors/students can use their preferred software brands. Examples of how to format letters, memos, emails, and spreadsheets are included. In the optional research and presentation component students research and present topics related to global and domestic sustainability. This textbook has been designed for lower-level and upper-level courses and can be easily adapted for in-class or online use. From the author: I created this textbook while teaching Software Applications in Business because I could not find a suitable text. I have conducted many iterations of refinement during classroom use. Many years of industry experience together with a 15-year State University of New York tenure have enabled me to design a textbook that will meet the needs of instructors who wish to create a realistic experience which builds a skill set that students can confidently take into the workplace. Students have returned after graduation and told me this was a valuable class and they could immediately utilize the skills they developed during the class in their current jobs. For more information: <https://www.facebook.com/AStateDepartmentOfSustainability>

Moisture Control Guidance for Building Design, Construction and Maintenance

Golden Days for Boys and Girls

The Examiner

Centipede Dragon

A Benevolent Creature

Who is Centipede Dragon? He is a part-centipede, and part-dragon, a magical creature who lives in an acorn tree in a village nestled by lake and mountains. Centipede Dragon is kind-hearted, who observes and admires the camaraderie demonstrated by the villagers. He is thus inspired to help them with the power of his magical scales. Soon, he becomes ill due in part to his benevolence, and two children who live in the village discover him and come to his aid. Will they succeed in saving him? Will they discover his secret?

Bring Back Our Girls

The Untold Story of the Global Search for Nigeria's Missing Schoolgirls

HarperCollins A 2021 Daily Telegraph Book of the Year Winner of the Overseas Press Club of America's Cornelius Ryan Award "Everyone should read the testimonies of the Chibok girls who survived the capture. We need to help with efforts to liberate all of them and become more responsible for women and girls' protection in conflicts." — Malala Yousafzai What happens after you click Tweet? The heart-stopping definitive account of the mission to rescue hundreds of Nigerian schoolgirls whose abduction ignited a global social media campaign and a dramatic worldwide intervention. In the spring of 2014, millions of Twitter users, including some of the world's most famous people, unwittingly helped turn a group of 276 schoolgirls abducted by a little-known Islamist sect into a central prize in the global War on Terror by retweeting a call for their release: #BringBackOurGirls. With just four words, their tweets launched an army of would-be liberators. Soldiers and drones, spies, mercenaries, and glory hunters descended into an obscure conflict that few understood, in a remote part of Nigeria that had barely begun to use the internet. When hostage talks and military intervention failed, the schoolgirls were forced to take survival into their own hands. As their days in captivity dragged into years, the young women learned to withstand hunger, disease, and torment, and became witnesses and victims of unspeakable brutality. Many of the girls were Christians who refused to take the one path offered them—converting to their captors' fundamentalist creed. In secret, they sang hymns, and kept a diary, relying on their faith and friendships to stay alive. Bring Back Our Girls unfolds across four continents, from the remote forests of northern Nigeria to the White House; from clandestine meetings in Khartoum safe houses to century-old luxury hotels on picturesque lakes in the Swiss Alps. A twenty-first century story that plumbs the promise and peril of an era whose politics are fueled by the power of hashtag advocacy, this urgent and engrossing work of investigative journalism reveals the unpredictable interconnectedness of our butterfly-wings world, where a few days of online activism can bring years of offline consequences for people continents away.

Fundamentals of Mechanics

University Physics

Createspace Independent Publishing Platform Fundamentals of Mechanics is Volume 1 of six-volume Calculus-based University Physics series, designed to meet the requirements of a two-semester course sequence of introductory physics for physics, chemistry, and engineering majors. The present volume focuses on building a good foundation in kinematics and dynamics. The emphasis is placed on understanding basic concepts of kinematics and equilibrium conditions of forces well before handling more difficult subject of dynamics. Concepts and ideas are developed starting from fundamental principles whenever possible and illustrated by numerical and symbolic problems. Detailed guided exercises and challenging problems help students develop their problem solving skills. The complete University Physics series (Volumes 1-6) covers topics in Mechanics, Gravitation, Waves, Sound, Fluids, Thermodynamics, Electricity, Magnetism, Optics, and Modern Physics. Appropriate volumes can be selected to provide students a solid foundation of introductory physics and make their transition into advanced courses easier. Volume 1: Fundamentals of Mechanics - Vectors, Kinematics, Newton's Laws of Motion, Impulse, Energy, Rotation, Physics in Non-inertial Frames. Volume 2: Applications of Mechanics - Newton's Law of Gravitation, Simple Harmonic Motion, Mechanical Waves, Sound, Stress and Strain in Materials, Fluid Pressure, Fluid Dynamics. Volume 3: Thermodynamics - Heat, Temperature, Specific Heat, Thermal Expansion, Ideal Gas Law, First Law of Thermodynamics, Work by Gas, Second Law of Thermodynamics, Heat Engine, Carnot Cycle, Entropy, Kinetic Theory, Maxwell's Velocity Distribution. Volume 4: Electricity and Magnetism - Static Electricity, Coulomb's Law, Electric Field, Gauss's Law, Electric Potential, Metals and Dielectrics, Magnets, Magnetic Force, Steady Current, Magnetic Field, Ampere's Law, Kirchoff's Rules, Electrodynamics, Faraday's Law, Maxwell's Equations, AC Circuits. Volume 5: Optics - Law of Reflection, Snell's Law of Refraction, Optical Elements, Optical Instruments, Wave

Optics, Interference, Young's Double Slit, Michelson Interferometer, Fabry-Perot Interferometer, Huygens-Fresnel Principle, Diffraction. Volume 6: Modern Physics - Relativity, Quantum Mechanics, Material Science, Nuclear Physics, Fundamental Particles, Gravity, and Cosmology.