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Conceptual Physics Ch 36 3rd Edition

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MICAH BRYNN

Fundamental Concepts and Skills for Nursing Clarendon Press

A textbook for a graduate and senior undergraduate course of one or two semesters introducing the physics and astrophysics in space. Biswas, (formerly Tata Institute of Fundamental Research, Bombay) expects students to be familiar with introductory physics including general physics, classical mechanics and electrodynamics, the special theory of relativity, and some introductory astronomy. He covers the elements of space research; the magnetosphere of the earth; the sun and the heliosphere; the moon and the planets; comets, meteorites, and the origin of the Solar System; solar energetic particles; galactic cosmic rays; space astrophysics; and the interstellar medium. Annotation copyrighted by Book News, Inc., Portland, OR

Fundamentals of Physics, Extended, A Student's Companion EOLSS Publications

Imaging in Dermatology covers a large number of topics in dermatological imaging, the use of lasers in dermatology studies, and the implications of using these technologies in research. Written by the experts working in these exciting fields, the book explicitly addresses not only current applications of nanotechnology, but also discusses future trends of these ever-growing and rapidly changing fields, providing clinicians and researchers with a clear understanding of the advantages and challenges of laser and imaging technologies in skin medicine today, along with the cellular and molecular effects of these technologies. Outlines the fundamentals of imaging and lasers for dermatology in clinical and research settings Provides knowledge of current and future applications of dermatological imaging and lasers Coherently structured book written by the experts working in the fields covered

A History of Medieval Philosophy John Wiley & Sons

DHM and Posturography explores the body of knowledge and state-of-the-art in digital human modeling, along with its application in ergonomics and posturography. The book provides an industry first introductory and practitioner focused overview of human simulation tools, with detailed chapters describing elements of posture, postural interactions, and fields of application. Thus, DHM tools and a specific scientific/practical problem – the study of posture – are linked in a coherent framework. In addition, sections show how DHM interfaces with the most common physical devices for posture analysis. Case studies provide the applied knowledge necessary for practitioners to make informed decisions. Digital Human Modelling is the science of representing humans with their physical properties, characteristics and behaviors in computerized, virtual models. These models can be used standalone, or integrated with other computerized object design systems, to design or study designs, workplaces or products in their relationship with humans. Presents an introductory, up-to-date overview and introduction to all industrially relevant DHM systems that will enable users on trialing, procurement decisions and initial applications Includes user-level examples and case studies of DHM application in various industrial fields Provides a structured and posturography focused compendium that is easy to access, read and understand

NEET/ AIIMS Objective Question Bank for Physics, Chemistry & Biology John Wiley & Sons Incorporated

Achieve success in your physics course by making the most of what PHYSICS FOR SCIENTISTS AND ENGINEERS has to offer. From a host of in-text features to a range of outstanding technology resources, you'll have everything you need to understand the natural forces and principles of physics. Throughout every chapter, the authors have built in a wide range of examples, exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced within the product description or the product text may

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Physics for Scientists and Engineers: Foundations and Connections Elsevier Health Sciences World-leading researchers, including Nobel Laureates, explore the most basic questions of science, philosophy, and the nature of existence.

Cosmic Perspectives in Space Physics Elsevier

Quality of Human Resources: Education is a component of Encyclopedia of Human Resources Policy, Development and Management which is part of the global Encyclopedia of Life Support Systems (EOLSS), an integrated compendium of twenty one Encyclopedias. The Theme is organized into five different topics which represent the main scientific areas of the theme: Foundations of Educational Systems; Knowledge for Education; Structural Foundations of Educational Systems; Educational Systems: Case Studies and Educational Indices; Education for Sustainable Development. Each of these consists of a topic chapter emphasizing the general aspects and various subject articles explaining the back ground, theory and practice of a specific type of education which is a very important factor in human development and awareness for achieving global sustainable development. These three volumes are aimed at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

Hearings, Reports and Prints of the House Committee on Armed Services CRC Press

Engineering Physics Study Guide with Answer Key: Trivia Questions Bank, Worksheets to Review Textbook Notes PDF (Engineering Physics Quick Study Guide with Answers for Self-Teaching/Learning) includes worksheets to solve problems with hundreds of trivia questions. "Engineering Physics Study Guide" with answer key PDF covers basic concepts and analytical assessment tests. "Engineering Physics Question Bank" PDF book helps to practice workbook questions from exam prep notes. Engineering physics study guide with answers includes self-learning guide with verbal, quantitative, and analytical past papers quiz questions. Engineering Physics trivia questions and answers PDF download, a book to review questions and answers on chapters: Alternating fields and currents, astronomical data, capacitors and capacitance, circuit theory, conservation of energy, coulomb's law, current produced magnetic field, electric potential energy, equilibrium, indeterminate structures, finding electric field, first law of thermodynamics, fluid statics and dynamics, friction, drag and centripetal force, fundamental constants of physics, geometric optics, inductance, kinetic energy, longitudinal waves, magnetic force, models of magnetism, newton's law of motion, Newtonian gravitation, Ohm's law, optical diffraction, optical interference, physics and measurement, properties of common elements, rotational motion, second law of thermodynamics, simple harmonic motion, special relativity, straight line motion, transverse waves, two and three dimensional motion, vector quantities, work-kinetic energy theorem worksheets for college and university revision notes. Engineering physics question bank PDF download with free sample book covers beginner's questions, textbook's study notes to practice worksheets. Physics study guide PDF includes high school workbook questions to practice worksheets for exam. "Engineering Physics Trivia Questions" and answers PDF, a quick study guide with chapters' notes for competitive exam. "Engineering Physics Worksheets" book PDF to review problem solving exam tests from physics practical and textbook's chapters as: Chapter 1: Alternating Fields and Currents Worksheet Chapter 2: Astronomical Data Worksheet Chapter 3: Capacitors and Capacitance Worksheet Chapter 4: Circuit Theory Worksheet Chapter 5: Conservation of Energy Worksheet Chapter 6: Coulomb's Law Worksheet Chapter 7: Current Produced Magnetic Field Worksheet Chapter 8: Electric Potential Energy Worksheet Chapter 9: Equilibrium, Indeterminate Structures Worksheet Chapter 10: Finding Electric Field Worksheet Chapter 11: First Law of Thermodynamics Worksheet Chapter 12: Fluid Statics and Dynamics Worksheet Chapter 13: Friction, Drag and Centripetal Force Worksheet Chapter 14: Fundamental

Constants of Physics Worksheet Chapter 15: Geometric Optics Worksheet Chapter 16: Inductance Worksheet Chapter 17: Kinetic Energy Worksheet Chapter 18: Longitudinal Waves Worksheet Chapter 19: Magnetic Force Worksheet Chapter 20: Models of Magnetism Worksheet Chapter 21: Newton's Law of Motion Worksheet Chapter 22: Newtonian Gravitation Worksheet Chapter 23: Ohm's Law Worksheet Chapter 24: Optical Diffraction Worksheet Chapter 25: Optical Interference Worksheet Chapter 26: Physics and Measurement Worksheet Chapter 27: Properties of Common Elements Worksheet Chapter 28: Rotational Motion Worksheet Chapter 29: Second Law of Thermodynamics Worksheet Chapter 30: Simple Harmonic Motion Worksheet Chapter 31: Special Relativity Worksheet Chapter 32: Straight Line Motion Worksheet Chapter 33: Transverse Waves Worksheet Chapter 34: Two and Three Dimensional Motion Worksheet Chapter 35: Vector Quantities Worksheet Chapter 36: Work-Kinetic Energy Theorem Worksheet Solve "Alternating Fields and Currents Study Guide" PDF, question bank 1 to review worksheet: Alternating current, damped oscillations in an RLS circuit, electrical-mechanical analog, forced and free oscillations, LC oscillations, phase relations for alternating currents and voltages, power in alternating current circuits, transformers. Solve "Astronomical Data Study Guide" PDF, question bank 2 to review worksheet: Aphelion, distance from earth, eccentricity of orbit, equatorial diameter of planets, escape velocity of planets, gravitational acceleration of planets, inclination of orbit to earth's orbit, inclination of planet axis to orbit, mean distance from sun to planets, moons of planets, orbital speed of planets, perihelion, period of rotation of planets, planet densities, planets masses, sun, earth and moon. Solve "Capacitors and Capacitance Study Guide" PDF, question bank 3 to review worksheet: Capacitor in parallel and in series, capacitor with dielectric, charging a capacitor, cylindrical capacitor, parallel plate capacitor. Solve "Circuit Theory Study Guide" PDF, question bank 4 to review worksheet: Loop and junction rule, power, series and parallel resistances, single loop circuits, work, energy and EMF. Solve "Conservation of Energy Study Guide" PDF, question bank 5 to review worksheet: Center of mass and momentum, collision and impulse, collisions in one dimension, conservation of linear momentum, conservation of mechanical energy, linear momentum and Newton's second law, momentum and kinetic energy in collisions, Newton's second law for a system of particles, path independence of conservative forces, work and potential energy. Solve "Coulomb's Law Study Guide" PDF, question bank 6 to review worksheet: Charge is conserved, charge is quantized, conductors and insulators, and electric charge. Solve "Current Produced Magnetic Field Study Guide" PDF, question bank 7 to review worksheet: Ampere's law, and law of Biot-Savart. Solve "Electric Potential Energy Study Guide" PDF, question bank 8 to review worksheet: Introduction to electric potential energy, electric potential, and equipotential surfaces. Solve "Equilibrium, Indeterminate Structures Study Guide" PDF, question bank 9 to review worksheet: Center of gravity, density of selected materials of engineering interest, elasticity, equilibrium, indeterminate structures, ultimate and yield strength of selected materials of engineering interest, and Young's modulus of selected materials of engineering interest. Solve "Finding Electric Field Study Guide" PDF, question bank 10 to review worksheet: Electric field, electric field due to continuous charge distribution, electric field lines, flux, and Gauss law. Solve "First Law of Thermodynamics Study Guide" PDF, question bank 11 to review worksheet: Absorption of heat by solids and liquids, Celsius and Fahrenheit scales, coefficients of thermal expansion, first law of thermodynamics, heat of fusion of common substances, heat of transformation, heat of vaporization of common substances, introduction to thermodynamics, molar specific heat, substance specific heat in calories, temperature, temperature and heat, thermal conductivity, thermal expansion, and zeroth law of thermodynamics. Solve "Fluid Statics and Dynamics Study Guide" PDF, question bank 12 to review worksheet: Archimedes principle, Bernoulli's equation, density, density of air, density of water, equation of continuity, fluid, measuring pressure, pascal's principle, and pressure. Solve "Friction, Drag and Centripetal Force

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Solve "Properties of Common Elements Study Guide" PDF, question bank 27 to review worksheet: Aluminum, antimony, argon, atomic number of common elements, boiling points, boron, calcium, copper, gallium, germanium, gold, hydrogen, melting points, and zinc. Solve "Rotational Motion Study Guide" PDF, question bank 28 to review worksheet: Angular momentum, angular momentum of a rigid body, conservation of angular momentum, forces of rolling, kinetic energy of rotation, newton's second law in angular form, newton's second law of rotation, precession of a gyroscope, relating linear and angular variables, relationship with constant angular acceleration, rolling as translation and rotation combined, rotational inertia of different objects, rotational variables, torque, work and rotational kinetic energy, and yo-yo. 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Components of vector, multiplying vectors, unit vector, vectors, and scalars. Solve "Work-Kinetic Energy Theorem Study Guide" PDF, question bank 36 to review worksheet: Energy, kinetic energy, power, and work.

Radiologic Science for Technologists - E-Book CRC Press

Cengage Learning is pleased to announce the publication of Debora Katz's ground-breaking calculus-based physics program, PHYSICS FOR SCIENTISTS AND ENGINEERS: FOUNDATIONS AND CONNECTIONS. The author's one-of-a-kind case study approach enables students to connect mathematical formalism and physics concepts in a modern, interactive way. By leveraging physics education research (PER) best practices and her extensive classroom experience, Debora Katz addresses the areas students struggle with the most: linking physics to the real world, overcoming common preconceptions, and connecting the concept being taught and the mathematical steps to follow. How Dr. Katz deals with these challenges—with case studies, student dialogues, and detailed two-column examples—distinguishes this text from any other on the market and will assist you in taking your students "beyond the quantitative." Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Physics for Scientists and Engineers, Volume 2 Addison-Wesley Longman

This volume presents the proceedings of the 3rd International Conference on Nanotechnologies and Biomedical Engineering which was held on September 23-26, 2015 in Chisinau, Republic of Moldova. ICNBE-2015 continues the series of International Conferences in the field of nanotechnologies and biomedical engineering. It aims at bringing together scientists and engineers dealing with fundamental and applied research for reporting on the latest theoretical developments and applications involved in the fields. Topics include Nanotechnologies and nanomaterials Plasmonics and metamaterials Bio-micro/nano technologies Biomaterials Biosensors and sensors systems Biomedical instrumentation Biomedical signal processing Biomedical imaging and image processing Molecular, cellular and tissue engineering Clinical engineering, health technology management and assessment; Health informatics, e-health and telemedicine Biomedical engineering education Nuclear and radiation safety and security Innovations and technology transfer

X+2 BOARD EXAM BASED CONCEPTUAL PHYSICS (Board Exam Made Simple) Academic Press

Optical spectroscopy has been instrumental in the discovery of many lanthanide elements. In return, these elements have always played a prominent role in lighting devices and light conversion technologies (Auer mantles, incandescent lamps, lasers, cathode-ray and plasma displays). They are also presently used in highly sensitive luminescent bio-analyses and cell imaging. This volume of the Handbook on the Physics and Chemistry of Rare Earths is entirely devoted to the photophysical properties of these elements. It is dedicated to the late Professor William T (Bill) Carnall who has pioneered the understanding of lanthanide spectra in the 1960's and starts with a Dedication to this scientist. The following five chapters describe various aspects of lanthanide spectroscopy and its applications. Chapter 231 presents state-of-the-art theoretical calculations of lanthanide energy levels and transition intensities. It is followed by a review (Chapter 232) on both theoretical and experimental aspects of f-d transitions, a less well known field of lanthanide spectroscopy, yet very important for the design of new optical materials. Chapter 233 describes how confinement effects act on the photophysical properties of lanthanides when they are inserted into nanomaterials, including nanoparticles, nanosheets, nanowires, nanotubes, insulating and semiconductor nanocrystals. The use of lanthanide chelates for biomedical analyses is presented in Chapter 234; long lifetimes of the excited states of lanthanide ions allow the use of time-resolved spectroscopy, which leads to highly sensitive analyses devoid of background effect from the autofluorescence of the samples. The last review (Chapter 235) provides a comprehensive survey of near-infrared (NIR) emitting molecular probes and devices, spanning an all range of compounds, from simple chelates to macrocyclic complexes, heterometallic functional edifices, coordination polymers and other extended structures. Applications ranging from telecommunications to light-emitting diodes and biomedical analyses are assessed. - Provides a comprehensive look at optical spectroscopy and its applications - A volume in the continuing authoritative series which deals with the chemistry, materials science, physics and technology of the rare earth elements

DHM and Posturography CRC Press

This popular book incorporates modern approaches to physics. It not only tells readers how physics works, it shows them. Applications have been enhanced to form a bridge between concepts and reasoning.

The Chemistry and Technology of Coal, Second Edition, AuthorHouse

In this classic work, Frederick C. Copleston, S.J., outlines the development of philosophical reflection in Christian, Islamic, and Jewish thought from the ancient world to the late medieval period. A History of Medieval Philosophy is an invaluable general introduction that also includes longer treatments of such leading thinkers as Aquinas, Scotus, and Ockham.

From Epicurus to Epictetus Addison Wesley Publishing Company

College students in the United States are becoming increasingly incapable of differentiating between proven facts delivered by scientific inquiry and the speculations of pseudoscience. In an effort to help stem this disturbing trend, From Atoms to Galaxies: A Conceptual Physics Approach to Scientific Awareness teaches heightened scientific acuity as it educates students about the physical world and gives them answers to questions large and small. Written by Sadri Hassani, the author of several mathematical physics textbooks, this work covers the essentials of modern physics, in a way that is as thorough as it is compelling and accessible. Some of you might want to know How did Galileo come to think about the first law of motion? . . . Did Newton actually discover gravity by way of an apple and an accident? Or maybe you have mulled over... . . . Is it possible for Santa Claus to deliver all his toys? . . . Is it possible to prove that Elvis does not visit Graceland every midnight? Or perhaps you've even wondered If ancient Taoism really parallels modern physics? . . . Is psychoanalysis can actually be called a science? . . . How it is that some philosophies of science may imply that a 650-year-old woman can give birth to a child? No Advanced Mathematics Required A primary textbook for undergraduate students not majoring in physics, From Atoms to Galaxies examines physical laws and their consequences from a conceptual perspective that requires no advanced mathematics. It explains quantum physics, relativity, nuclear and particle physics, gauge theory, quantum field theory, quarks and leptons, and cosmology. Encouraging students to subscribe to proven causation rather than dramatic speculation, the book: Defines the often obscured difference between science and technology, discussing how this confusion taints both common culture and academic rigor Explores the various philosophies of science, demonstrating how errors in our understanding of scientific principles can adversely impact scientific awareness Exposes how pseudoscience and New Age mysticism advance unproven conjectures as dangerous alternatives to proven science Based on courses taught by the author for over 15 years, this textbook has been developed to raise the scientific awareness of the untrained reader who lacks a technical or mathematical background. To accomplish this, the book lays the foundation of the laws that govern our universe in a nontechnical way, emphasizing topics that excite the mind, namely those taken from modern physics, and exposing the abuses made of them by the New Age gurus and other mystagogues. It outlines the methods developed by physicists for the scientific investigation of nature, and contrasts them with those developed by the outsiders who claim to be the owners of scientific methodology. Each chapter includes essays, which use the material developed in that chapter to debunk misconceptions, clarify the nature of science, and explore the history of physics as it relates to the development of ideas. Noting the damage incurred by confusing science and technology, the book strives to help the reader to emphatically demarcate the two, while clearly demonstrating that science is the only element capable of advancing technology.

3rd International Conference on Nanotechnologies and Biomedical Engineering CRC Press

Introduces readers to the enlightening world of the modern light microscope There have been rapid advances in science and technology over the last decade, and the light microscope, together with the information that it gives about the image, has changed too. Yet the fundamental principles of setting up and using a microscope rests upon unchanging physical principles that have been understood for years. This informative, practical, full-colour guide fills the gap between specialised edited texts on detailed research topics, and introductory books, which concentrate on an optical approach to the light microscope. It also provides comprehensive coverage of confocal microscopy, which has revolutionised light microscopy over the last few decades. Written to help the reader understand, set up, and use the often very expensive and complex modern research light microscope properly, Understanding Light Microscopy keeps mathematical formulae to a minimum—containing and explaining them within boxes in the text. Chapters provide in-depth coverage of basic microscope optics and design; ergonomics; illumination; diffraction and image formation; reflected-light, polarised-light, and fluorescence microscopy; deconvolution; TIRF microscopy; FRAP & FRET; super-resolution techniques; biological and materials specimen preparation; and more. Gives a didactic introduction to the light microscope Encourages readers to

use advanced fluorescence and confocal microscopes within a research institute or core microscopy facility Features full-colour illustrations and workable practical protocols Understanding Light Microscopy is intended for any scientist who wishes to understand and use a modern light microscope. It is also ideal as supporting material for a formal taught course, or for individual students to learn the key aspects of light microscopy through their own study.

Fundamental Concepts and Skills for Nursing - E-Book Springer

Develop the skills and knowledge to make informed decisions regarding technical factors and diagnostic imaging quality with the vibrantly illustrated Radiologic Science for Technologists, 10th Edition. Updated with the latest advances in the field, this full-color and highly detailed edition addresses a broad range of radiologic disciplines and provides a strong foundation in the study and practice of radiologic physics, imaging, radiobiology, radiation protection, and more. Unique learning tools strengthen your understanding of key concepts and prepare you for success on the ARRT certification exam and in clinical practice. Broad coverage of radiologic science topics — including radiologic physics, imaging, radiobiology, radiation protection, and more — allows you to use the text over several semesters. Highlighted math formulas call attention to mathematical information for special focus. Important Concept boxes recap the most important chapter information. Colored page tabs for formulas, conversion tables, abbreviations, and other data provide easy access to frequently used information. End-of-chapter questions include definition exercises, short answer, and calculations to help you review material. Key terms and expanded glossary enable you to easily reference and study content. Chapter introductions, summaries, objectives, and outlines help you organize and pinpoint the most important information. NEW! Chapters on digital radiographic technique and digital image display prepare you to use today's technology. NEW! Streamlined physics and math sections ensure you are prepared to take the ARRT exam and succeed in the clinical setting.

Handbook of X-ray Imaging Springer Science & Business Media

Prof. McClain has, quite simply, produced a new kind of tutorial book. It is written using the logic

engine Mathematica, which permits concrete exploration and development of every concept involved in Symmetry Theory. It is aimed at students of chemistry and molecular physics who need to know mathematical group theory and its applications, either for their own research or for understanding the language and concepts of their field. The book begins with the most elementary symmetry concepts, then presents mathematical group theory, and finally the projection operators that flow from the Great Orthogonality are automated and applied to chemical and spectroscopic problems.

The Synopticon Disha Publications

A.A. Long, one of the world's leading writers on ancient philosophy, presents eighteen essays on the philosophers and schools of the Hellenistic and Roman periods—Epicureans, Stoics, and Sceptics. The discussion ranges over four centuries of innovative and challenging thought in ethics and politics, psychology, epistemology, and cosmology. In *From Epicurus to Epictetus*, Long's focus is on the distinctive contributions and methodologies of individual thinkers, notably Epicurus, Zeno, Pyrrho, Arcesilaus, Lucretius, Cicero, Seneca, and Epictetus. Placing their philosophy in its cultural context, and considering it in relation to the earlier ideas of Socrates, Plato and Aristotle, he invites his readers to imagine themselves choosing between Stoicism and Epicureanism as philosophies of life. All but one of these pieces has been previously published in periodicals or conference volumes, but the author has revised and updated everything, and has also added postscripts to many of the essays. This is a book not only for scholars and experts but also, thanks to the author's accessible style, for everyone interested in understanding the legacy and continuing relevance of ancient thought.

Quality of Human Resources: Education - Volume III Lalit Mohan Garg

Major philosophical concepts (outlines) with reading lists referring to quotations in vols. of the series Great books of the Western world.

Symmetry Theory in Molecular Physics with Mathematica Little Brown

This popular book incorporates modern approaches to physics. It not only tells readers how physics works, it shows them. Applications have been enhanced to form a bridge between concepts and reasoning.

Handbook on the Physics and Chemistry of Rare Earths Elsevier Health Sciences

Will Winn has written {Introduction to Understandable Physics} in a building-block fashion.

Accordingly, {Volume IV - Modern and Frontier Physics} builds on the classical physics of the earlier volumes. {Volume IV} begins by studying the birth of quantum physics and relativity early in the twentieth century. These concepts then apply to atomic physics, explaining the periodic table relative to quantized electron shells. Similarly, nuclear physics explores the nucleus relative to its collective shell model. Atomic and nuclear applications are examined in medicine, power production and research, along with familiar items such as smoke detectors, cell phones and bar-code scanners. Frontier physics examines both extremely small and large structures. Protons, neutrons, and many other particles can be classified into families. Each particle comprises {quarks}, which define a "genetic" family. A deeper substructure of {strings} has also been theorized but experimental confirmation is problematic. For very large structures, cosmology explores the evolution of the universe, noting that the Big-Bang projects that "the very small" and "the very large" were "one-and-the-same" in their early development. This sameness argues that the four basic forces of nature were originally indistinguishable! Our understanding of the expansion of the universe has been impacted by the discoveries of {dark matter} and {dark energy}, The expansion rate projects the ultimate destiny of the universe - a "big crunch" or continued expansion. Much is yet to be explored! Near the end of each chapter a [Simple Projects] section suggests experiments and/or field trips that can reinforce the physics covered. Some experiments are simple enough for students to explore alone, while others benefit from equipment available to physics instructors. Also {optional} text sections provide students with a deeper appreciation of the subject matter; however these are not required for continuity. Some of these optional topics can be candidates for term projects.