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[The Science and Engineering of Materials, SI Edition](#) Feb 27 2022 [The Science and Engineering of Materials Sixth Edition](#) describes the foundations and applications of materials science as predicated upon the structure-processing-properties paradigm with the goal of providing enough science so that the reader may understand basic materials phenomena, and enough engineering to prepare a wide range of students for competent professional practice. By selecting the appropriate topics from the wealth of material provided in [The Science and Engineering of Materials](#), instructors can emphasize materials, provide a general overview, concentrate on mechanical behavior, or focus on physical properties. Since the book has more material than is needed for a one-semester course, students will also have a useful reference for subsequent courses in manufacturing, materials, design, or materials selection. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Storage and Supply of Materials Dec 16 2020 The sixth edition of this authoritative and successful text provides a comprehensive overview of the storage and supply of materials, from elementary principles and simplest methods to the most sophisticated automated operations. This edition deals with the provision of materials for all kinds of organisations with an emphasis on the service sector. It includes sections on the relevant procedures, as well as covering the physical processes of storage, handling and movement of materials. [Storage and Supply of Materials](#) provides an excellent blend of useful down-to-earth advice backed up with the latest techniques and technology, and will be of use to all those concerned with stores management, inventory control and provisioning.

[EU Law](#) Jul 31 2019 This work provides a clear and insightful analysis of European law accompanied by carefully chosen extracts from a range of materials.

Introduction to Materials Management Apr 07 2020 This introductory textbook describes the basics of supply chain management, manufacturing planning and control systems, purchasing, and physical distribution. The fourth edition makes additions in kanban, supply chain concepts, system selection, theory of constraints and drum-buffer-rope, and need f
[Criminal Procedures, Cases, Statutes, and Executive Materials, Sixth Edition](#) Jul 23 2021 [Criminal Procedures: Cases, Statutes, and Executive Materials](#) is known for its focus on materials from multiple institutions, including primary materials from U.S. Supreme Court cases, state high court cases, state and federal statutes, rules of procedure, and police and prosecutorial policies, along with materials from social science studies. Taken together, the principal materials highlight procedural variety, focus on real-world topics, provide the political context, offer a comparative analysis of different legal approaches, and consider the impact of procedures. The 2021 Supplement covers the most recent decisions of the U.S. Supreme Court as well as newsworthy developments such as policing and bail reform, emerging legal responses to new surveillance technologies, and the declination policies of newly-elected prosecutors. New to the 2021 Edition: Two new authors joined the editorial team in 2019: Jenia Iontcheva Turner of SMU Dedman School of Law and Kay L. Levine of Emory University School of Law. With her doctoral training in Socio-Legal Studies and her balanced experience as a prosecutor and a defense attorney in state court, Professor Levine sharpens the focus of the book on the real-world operation of courtroom actors in high-volume state systems. With her background in international criminal tribunals and comparative criminal procedure, Professor Turner strengthens the comparisons between court systems in the U.S. and those around the world. The 2021 Supplement incorporates all of the Criminal Procedure rulings of the U.S. Supreme Court from its October 2019 Term and its October 2020 term, whether through reprinting opinions as principal materials or through summary coverage in new notes and practice problems. The Supplement includes opinions from high state courts that add texture to the doctrines described in the main volume. The Supplement also spotlights new legislative and enforcement trends, including proposals for limiting police use of force, "defunding" or reforming police departments, emerging legal responses to new surveillance technologies, bail reform, and the declination policies that prosecutors publish and apply.

Criminal Law: Text, Cases, and Materials Sep 05 2022 Includes bibliographical references index.

Steiner & Woods EU Law Apr 19 2021 'EU Law' covers both the institutions of the EU and the substantive law they produce. The new constitution is introduced, its aims and the reasons for its negotiation. Pedagogical features have been incorporated into this edition making the text easier to navigate.

Trade Regulation Supplement Oct 02 2019 This 2007 supplement supports Pitofsky, Goldsmdid and Wood's Trade Regulation, Case and Materials, 5th Edition law school casebook with respect to recent court opinions and other significant developments in trade regulation and antitrust law.

The Science and Engineering of Materials, Enhanced, SI Edition Oct 06 2022 Develop a thorough understanding of the relationships between structure, processing and the properties of materials with Askeland/Wright's THE SCIENCE AND ENGINEERING OF MATERIALS, ENHANCED, SI, 7th Edition. This comprehensive edition serves as a useful professional reference for current or future study in manufacturing, materials, design or materials selection. This science-based approach to materials engineering highlights how the structure of materials at various length scales gives rise to materials properties. You examine how the connection between structure and properties is key to innovating with materials, both in the synthesis of new materials as well as in new applications with existing materials. You also learn how time, loading and environment all impact materials -- a key concept that is often overlooked when using charts and databases to select materials. Trust this enhanced edition for insights into success in materials engineering today. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Simplified Mechanics and Strength of Materials Oct 26 2021

Sealy and Hooley's Commercial Law Jul 03 2022 Sealy and Hooley's Commercial Law: Text, Cases, and Materials provides students with an extensive and valuable range of extracts from key cases and writings in this most dynamic field of law. The authors' expert commentary and questions enliven each topic while emphasizing the practical application of the law in its business context. Five renowned experts in the field continue the legacy of Richard Hooley and Len Sealy, capturing the essence of this fascinating topic at a time of significant legislative, regulatory, and political change.

The Intersection of Antitrust and Intellectual Property Jun 29 2019 As intellectual property has grown in importance, the interaction between antitrust law and intellectual property has developed into a crucial part of the legal landscape. This new text is the first casebook expressly designed for a course on the intersection of intellectual property and antitrust law or for an advanced seminar on intellectual property misuse. It may also be suitable for supplemental use in a course on intellectual property, licensing, or litigation. Written by a professor who has worked in both the antitrust and intellectual property fields for over two decades, the casebook addresses both the rights of authors and inventors and the interest of society in promoting competition, expanding its base of knowledge, improving technology, and protecting consumer welfare.

Chemical Engineering Design Jul 11 2020 Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

Communications Law and Policy May 09 2020 The Second Edition of Communications Law and Policy, by Jerry Kang (University of California, Los Angeles), will be published by Foundation Press. This teachable work provides a comprehensive introduction to the technology, economics, law, and policy of modern communications. Its unique strength is that it is organized by analytic concepts instead of current industry lines, which are constantly outdated by technological convergence. The basic ideas'power, entry, pricing, bad content, good content, structure, and access'equip students with a durable and yet flexible intellectual structure that can help parse a complex and ever-changing field. Replete with clear, concise technological and legal summaries, the text provides carefully edited opinions and FCC reports. Technical diagrams, flowcharts, concept maps, and mind maps also help students navigate between minutiae and the big picture. The Second Edition also expands coverage to

include greater discussion of mobile telephony, the spectrum "commons," public broadcasting, direct broadcast satellite (DBS), media consolidation, local telephone competition, interconnection, Voice-Over-IP (VOIP), and "open access" to broadband pipes. A brand new Research Appendix provides the definitive guide on how to research communications law with clear explanations of the FCC rulemaking process and the documents generated along the way. With myriad refinements and substantial additions, the Second Edition maintains the conceptual clarity and teachability of the first edition while providing greater coverage, currency, and detail. An updated companion website provides links to useful resources provided by government, industry, and other stakeholders. If you are looking to teach a complete communications class, and not just Cyber or Internet law, this casebook provides the most pedagogically coherent and sophisticated text available. For more information, consult the casebook's website: <http://jerrykang.net/commlaw>. "This is the best casebook I have purchased for a HLS class and is the best investment I have made in books in my three years here." ?from an anonymous teaching evaluation by Harvard 3L student, Spring 2004

Advanced Mechanics of Materials Jun 02 2022

Tort Law Aug 04 2022 Each section begins with a clear overview of the key points of the law, before fully explaining and illustrating the topic through substantial case extracts and further commentary."--BOOK JACKET.

Deformation and Fracture Mechanics of Engineering Materials Jan 17 2021 Deformation and Fracture Mechanics of Engineering Materials, Sixth Edition, provides a detailed examination of the mechanical behavior of metals, ceramics, polymers, and their composites. Offering an integrated macroscopic/microscopic approach to the subject, this comprehensive textbook features in-depth explanations, plentiful figures and illustrations, and a full array of student and instructor resources. Divided into two sections, the text first introduces the principles of elastic and plastic deformation, including the plastic deformation response of solids and concepts of stress, strain, and stiffness. The following section demonstrates the application of fracture mechanics and materials science principles in solids, including determining material stiffness, strength, toughness, and time-dependent mechanical response. Now offered as an interactive eBook, this fully-revised edition features a wealth of digital assets. More than three hours of high-quality video footage helps students understand the practical applications of key topics, supported by hundreds of PowerPoint slides highlighting important information while strengthening student comprehension. Numerous real-world examples and case studies of actual service failures illustrate the importance of applying fracture mechanics principles in failure analysis. Ideal for college-level courses in metallurgy and materials, mechanical engineering, and civil engineering, this popular is equally valuable for engineers looking to increase their knowledge of the mechanical properties of solids.

Strength of Materials Feb 15 2021 The sixth edition of the book has thoroughly been modified and enlarged to meet the revised syllabi of many universities and other professional examination like AMIE and above all to incorporate the suggestions received from the students and faculty alike. Additional problems on two-dimensional complex stress systems have been fully solved by both analytical and Mohr's circle method so that the readers are made aware of the fact that the sign shear stress on a particular plane has its one important role to play so as arrive at the correct result which otherwise is normally overlooked or even sometimes neglected. The term "bending Moment" and "twisting Moment" have been introduced as vector quantities in order to bring out the difference between them so that the reader can easily decipher each of them and proceed ahead to accomplish the associated objectives. The chapter on Thick Cylinders had been re-written to keep uniformity in sign convention of the stresses throughout the entire text. Further in this chapter the process of autofrettage of a thick cylinder has been introduced along with the "Simplified" theory of this process. The author has endeavored to familiarize the readers with the "Yield point phenomenon of low carbon steel". "quantitative definitions of ductility and malleability" and "Negative Poisson's Ratio" Which were hitherto not dealt with in most of the text on the subject. On the specific demand of the students almost all the chapter have been supplemented with objective type questions along with more number of worked examples.

EU Competition Law Sep 24 2021 New to this edition: --

Moffat's Trusts Law Jun 21 2021 Detailed, thorough and authoritative new edition of Moffat's Trusts Law.

Animal Law Aug 12 2020 Sonia S. Waisman is an Adjunct Professor of Law, California Western School of Law, Of Counsel, Morrison & Foerster, LLP.

Applied Statics and Strength of Materials Nov 26 2021 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. This resource provides the necessary background in mechanics that is essential in many fields, such as civil, mechanical, construction, architectural, industrial, and manufacturing technologies. The focus is on the fundamentals of material statics and strength and the information is presented using an elementary, analytical, practical approach, without the use of Calculus. To ensure understanding of the concepts, rigorous, comprehensive example problems follow the explanations of theory, and numerous homework problems at the end of each chapter allow for class examples, homework problems, or additional practice for students. Updated and completely reformatted, the Sixth Edition of Applied Statics and Strength of Materials features color in the illustrations, chapter-opening Learning Objectives highlighting major topics, updated terminology changed to be more consistent with design codes, and the addition of units to all calculations.

Uniform Evidence Law Feb 04 2020 Uniform Evidence Law: Commentary and Materials, 6th edition has been updated throughout to provide essential case extracts and thoughtful concise commentary covering the uniform evidence legislation in the UEL jurisdictions of the Commonwealth, New South Wales, Victoria and Tasmania.

Tourism Management Nov 14 2020 Tourism Management: managing for change is a complete synthesis of tourism, from its beginnings through to the major impacts it has on today's global community, the environment and economy. Provocative and stimulating, it challenges the conventional thinking and generates reflection, thought and debate. This bestselling book is now in its third edition and has been fully revised and updated to include complete set of brand new case studies, a new four colour

page design to enhance learning and improved online companion resources packed with must have information to assist in learning and teaching. Tourism Management covers the fundamentals of tourism, introducing the following key concepts: * The development of tourism * Tourism supply and demand * Sectors involved: transport, accommodation, government * The future of tourism: including forecasting and future issues affecting the global nature of tourism In a user-friendly, handbook style, each chapter covers the material required for at least one lecture within a degree level course. Written in a jargon-free and engaging style, this is the ultimate student-friendly text, and a vital introduction to this exciting, ever-changing area of study. The text is also accompanied by a companion website packed with extra resources for both students and lecturers, including learning outcomes for each chapter, multiple choice questions, links to sample chapters of related titles and journal articles for further reading, as well as downloadable PowerPoint materials and illustrations from the text. Accredited lecturers can request access to download additional material by going to <http://textbooks.elsevier.com> to request access.

Uniform Evidence Law Mar 31 2022 *Uniform Evidence Law: Commentary and Materials*, 5th edition has been updated throughout to provide essential case and legislative extracts and thoughtful, concise commentary covering the uniform evidence legislation in the UEL jurisdictions of the Commonwealth, New South Wales, Victoria and Tasmania.

Cases and Materials on the Law of Torts Sep 12 2020 This sixth edition, continuing the use of minimally edited cases, serves as a vehicle for teaching first-year students the essential techniques of case analysis and legal method. This edition has been substantially shortened so as to meet the needs of instructors who teach a three or four hour introductory tort course.

Throughout, the book is modified to include developments in tort law since the fifth edition was published in 2012. For example, the intentional tort chapter recognizes and discusses the Restatement (Third) of Torts: Intentional Torts. The chapters on negligence and causation recognize and discuss cases relying on and referencing the Restatement (Third) of Torts: Liability for Physical & Emotional Harm. The chapter on duty reflects the framework by which courts think about duty. It brings together in one place all the areas of tort law that apply special duty rules. The Causation Chapter adds material on causation in toxic tort cases and the admissibility of expert witnesses after Daubert. The materials on products liability capture recent developments in that area. The Insurance Chapter incorporates the new restatement on insurance law. The chapter on tort reform updates the empirical research on the operation of the tort system and the effects of tort reform.

Handbook of Material Weathering Dec 28 2021 *Handbook of Material Weathering*, Sixth Edition, is an essential guide to the effects of weathering on polymers and industrial products, presenting theory, stress factors, methods of weathering and testing and the effects of additives and environmental stress cracking. The book provides graphical illustrations and numerical data to examine the weathering of major polymers and industrial products, including mechanisms of degradation, effect of thermal processes, and characteristic changes in properties. The book also discusses recycling, corrosion and weathering, and the weathering of stone. This sixth edition updates this seminal work with recent developments and the latest data. Polymers and industrial plastics products are widely used in environments where they are vulnerable to the effects of weathering. Weathering stress factors can lead to deterioration or even complete failure. Material durability is therefore vital, and products for outdoor usage or actinic exposure are designed so that the effects of artificial and natural weathering are minimized. This book is an important reference source for those involved in studying material durability, producing materials for outdoor use and actinic exposure, research chemists in the photochemistry field, chemists and material scientists designing new materials, users of manufactured products, those who control the quality of manufactured products and students who want to apply their knowledge to real materials. Offers detailed coverage of theory, stress factors and methods of weathering Provides specific information and numerical data for 52 polymers and 42 groups of industrial products, including characteristic changes and degradation mechanisms Discusses major additional topics, such as weathered materials for recycling and the interrelation between corrosion and weathering Provides graphical illustrations and numerical data to examine the weathering of major polymers and industrial products

Evidence Problems and Materials Mar 07 2020 The rules of evidence can be effectively and directly understood through applied learning methods such as problem-solving. More than just a supplemental source of problems, this book can be used in conjunction with the federal or state rules of evidence and their associated legislative history as an all-purpose guide to the rules of evidence. Each section of *Evidence Problems and Materials* commences with a brief explanation of a particular area of evidence law, followed by problems to test understanding of the evidentiary rules and their intended meaning. Methods of presentation of the problems include: • Courtroom transcript form; • Lawyering skills settings such as qualifying an expert, distinguishing and comparing statutes; and • Examination of identifying characteristics such as race, gender, sexual orientation, and ethnicity that may significantly affect evidentiary rulings. The role-playing problems allow students to consider different perspectives and focus on how to persuade others to adopt those perspectives, thereby facilitating an understanding of the evidence rules and their constitutive framework, and offering a broader perspective of how the rules relate to lawyering, legal theory, and human nature.

Modern Physical Metallurgy Jun 09 2020 *Modern Physical Metallurgy*, Fourth Edition discusses the fundamentals and applications of physical metallurgy. The book is comprised of 15 chapters that cover the experimental background of a metallurgical phenomenon. The text first talks about the structure of atoms and crystals, and then proceeds to dealing with the physical examination of metals and alloys. The third chapter tackles the phase diagrams and solidifications, while the fourth chapter covers the thermodynamics of crystals. Next, the book discusses the structure of alloys. The next four chapters deal with the deformations and defects of crystals, metals, and alloys. Chapter 10 discusses work hardening and annealing, while Chapters 11 and 12 cover phase transformations. The succeeding two chapters talk about creep, fatigue, and fracture, while the last chapter covers oxidation and corrosion. The text will be of great use to undergraduate students of materials engineering and other degrees that deal with metallurgical properties.

Manufacturing processes for engineering materials May 21 2021

Manufacturing Processes for Engineering Materials Oct 14 2020

Text, Cases and Materials on Medical Law and Ethics Dec 04 2019 Text, Cases and Materials on Medical Law and Ethics presents a valuable collection of materials relating to often controversial areas of the law. Comprising extracts from statutes, cases and scholarly articles alongside expert author commentary and guidance which signposts the key issues and principles, this book is an ideal companion to this increasingly popular subject. Fully revised, this new edition incorporates expanded content, including: updated coverage of consent and decision making, including the the *Montgomery v Lanarkshire Health Board* (2015) judgment; the impacts of the EC directive for clinical trials and GDPR on the research use of patient data; and discussion of other recent developments in the case law, including the 2017 *Charlie Gard* litigation, the 2016 Privy Council decision in *Williams v Bermuda* on negligence causation, and the UK Supreme Court judgment in *A & B v SS for Health* (2017) on funding for patients from Northern Ireland seeking terminations elsewhere. Providing a comprehensive and up-to-date resource on this topical area of the law, this textbook is an invaluable reference tool for students of medical law as well as those studying medicine.

Mechanics of Materials Nov 07 2022 This leading book in the field focuses on what materials specifications and design are most effective based on function and actual load-carrying capacity. Written in an accessible style, it emphasizes the basics, such as design, equilibrium, material behavior and geometry of deformation in simple structures or machines. Readers will also find a thorough treatment of stress, strain, and the stress-strain relationships. These topics are covered before the customary treatments of axial loading, torsion, flexure, and buckling.

Introduction to the Thermodynamics of Materials, Fifth Edition Aug 24 2021 "The CD contains data and descriptive material for making detailed thermodynamic calculations involving materials processing"--Preface.

Intellectual Property Mar 19 2021 This area of law and regulation has gained in importance with the development of the knowledge economy, as a large proportion of the worlds wealth is in the form of intellectual capital rather than physical or material sources.

Family Law Aug 31 2019

Sale of Land in NSW Nov 02 2019 *Sale of Land in NSW: Commentary and Materials Sixth Edition* analyses the effects of the 2017 standard form of contract for sale of land and the Conveyancing (Sale of Land) Regulation 2017 (NSW) on Conveyancing law and practice. The plain English style, carefully selected extracts and concise approach ensures readers gain a sound working knowledge of the fundamental legal principles of vendor and purchaser law. In the time since the last edition of this book, the law and practice of conveyancing has had to adapt to deal with the changing legal and regulatory environment. There have been three editions of the Standard Form Contract in the last three years to deal with the introduction of electronic conveyancing and capital gains withholding for foreign residents, and further increases in the number and type of regulatory matters that affect the quality of land, including the requirement for warnings and vendor disclosure. The intent of this book is still to provide students with a sound introduction to the fundamental concepts of conveyancing law and practice; and to provide practitioners with a first point of reference from which to commence their research. We have sought in this edition to provide some comparative material on aspects of the law of conveyancing in other Australian jurisdictions. One thing that has stood out in preparing this edition has been the variety of standard form contracts in the Australian States and Territories and the extent of differences, both great and subtle, in their legislative regimes. It has not been possible to adopt a systematic review of those regimes, but where possible we have provided references to interstate statutes, or a short comparative commentary. The primary subject of the book, though, is the law of New South Wales. There have not been quite so many new decisions to extract as in the previous edition, but the interaction of principles of property, contract and equity has produced decisions on several practical aspects, such as the implications of providing settlement statements, and the relationship between the purchaser's obligation to submit a transfer and the vendor's obligation to convey

Materials for Architects and Builders Jan 29 2022 *Materials for Architects and Builders* provides a clear and concise introduction to the broad range of materials used within the construction industry and covers the essential details of their manufacture, key physical properties, specification and uses. Understanding the basics of materials is a crucial part of undergraduate and diploma construction or architecture-related courses, and this established textbook helps the reader to do just that with the help of colour photographs and clear diagrams throughout. This new edition has been completely revised and updated to include the latest developments in materials research, new images, appropriate technologies and relevant legislation. The ecological effects of building construction and lifetime use remain an important focus, and this new edition includes a wide range of energy saving building components.

Applied Strength of Materials May 01 2022 Designed for a first course in strength of materials, *Applied Strength of Materials* has long been the bestseller for Engineering Technology programs because of its comprehensive coverage, and its emphasis on sound fundamentals, applications, and problem-solving techniques. The combination of clear and consistent problem-solving techniques, numerous end-of-chapter problems, and the integration of both analysis and design approaches to strength of materials principles prepares students for subsequent courses and professional practice. The fully updated Sixth Edition. Built around an educational philosophy that stresses active learning, consistent reinforcement of key concepts, and a strong visual component, *Applied Strength of Materials, Sixth Edition* continues to offer the readers the most thorough and understandable approach to mechanics of materials.

Cases and Materials on Criminal Law Jan 05 2020 Premised on the belief that criminal law is an exciting subject to learn and teach, this popular casebook provides a balanced and creative overview of classic and modern criminal law cases and issues while covering both common law foundations and modern statutory reform, including the Model Penal Code. The casebook invites classroom consideration of many controversies in the field (e.g., rape law, race-based jury nullification, Internet crime, and anti-stalking legislation) and defenses (e.g., battered women's self-defense). Using imaginative examples from literature

and music to illustrate criminal law issues (e.g., examining insanity with Edgar Allen Poe's The Tell-Tale Heart and homicide with Willa Cather's O Pioneers!), the casebook allows law students to confront some of the Big Questions with which philosophers, theologians, scientists, poets, and lawyers have grappled for centuries.