uk eu and global administrative law foundations and challenges the hamlyn lectures

#Administrative Law #UK Law #EU Law #Global Law #Hamlyn Lectures

Explore the foundational principles and contemporary challenges facing administrative law in the United Kingdom, European Union, and globally. This analysis, drawing from the Hamlyn Lectures, delves into the complexities of administrative structures, judicial review, and the evolving landscape of public law in a interconnected world. Understand the core concepts and pressing issues shaping administrative governance today.

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UK, EU and Global Administrative Law

A detailed analysis of the foundations and challenges of UK, EU and global administrative law.

The Foundations and Future of Public Law

Public law in the UK and EU has undergone seismic changes over the last forty years: development and membership of the EU, the Human Rights Act, devolution, the fostering of public law expertise within the judiciary, the globalization of public law, and the increased interaction between the academy, judiciary, barristers, public interest groups, and legislatures have transformed the public law landscape. Commentators spend much time at the frontiers of the subject, responding rapidly to new developments and providing guidance to scholars, legislators, and judges for future directions. In these circumstances, there is rarely a chance to reflect upon the implications of these changes for the fundamentals of public law and how those fundamentals relate to one another. In this collection, leading figures in UK and EU public law address this lacuna. Inspired by the depth, scope, and ambition of the work of Paul Craig, Professor of English Law at Oxford University, the focus of this collection is upon exploring and reflecting upon six fundamentals of public law and the interrelationship between them: legislation, case law, theory, institutions, process, and constitutions.

Values in Global Administrative Law

Global Administrative Law has recently emerged as one of the most important contemporary fields in public law scholarship. Concerned with developing fuller understandings of patterns in global governance, it represents one of the most insightful ways of viewing the multifarious forms of public power that now exist beyond the State. The present collection brings together some of the leading

scholars working in the field of global administrative law to address past and future challenges related to global governance. Each of the contributions picks up on the more general theme of the values that do or should inform global administrative law, and the book in this way provides a novel and thought-provoking commentary on this most engaging area of debate. Values in Global Administrative Law will be of interest to public lawyers, social and political scientists and scholars of international relations. It will also be an invaluable resource for undergraduate and postgraduate courses that touch partly or exclusively on the challenges of global governance.

Global Administrative Law and EU Administrative Law

This book seeks to enrich and refine global administrative law and EU administrative law analytical tools by examining their manifold relations. Its aim is to begin to explore the complex reality of the interactions between EU administrative law and global administrative law, to provide a preliminary map of such legal and institutional reality, and to review it. The book is the first attempt to analyze a dense area of new legal issues. The first part of the book contains core elements of a general theory of the relationships between global and EU administrative law: comparative inquiries, exchanges of legal principles, and developing linkages. The second part is devoted to special regulatory regimes, in which global and European law coexist, though not always peacefully. Several sectors are considered: cultural heritage, medicines, climate change, antitrust, accounting and auditing, banking supervision, and public procurement.

EU Administrative Law

The third edition of EU Administrative Law provides comprehensive coverage of the administrative system in the EU and the principles of judicial review that apply in this area. This revised edition provides important updates on each area covered, including new case law; institutional developments; and EU legislation. These changes are located within the framework of broader developments in the EU. The chapters in the first half of the book deal with all the principal variants of the EU administrative regime. Thus there are chapters dealing with the history and taxonomy of the EU administrative regime; direct administration; shared administration; comitology; agencies; social partners; and the open method of coordination. The coverage throughout focuses on the legal regime that governs the particular form of administration and broader issues of accountability, drawing on literature from political science as well as law. The focus in the second part of the book shifts to judicial review. There are detailed chapters covering all principles of judicial review and the discussion of the law throughout is analytical and contextual. It begins with the principles that have informed the development of EU judicial review. This is followed by a chapter dealing with the judicial system and the way in which reform could impact on the subject matter of the book. There are then chapters dealing with competence; access; transparency; process; law, fact and discretion; rights; equality; legitimate expectations; two chapters on proportionality; the precautionary principle; two chapters on remedies; and the Ombudsman.

The Foundations of European Community Law

Recoge: 1.Community institutions - 2.The community legal system - 3.Community law and the member states - 4.Administrative law.

Unelected Power

Tucker presents guiding principles for ensuring that central bankers and other unelected policymakers remain stewards of the common good.

Thinking About Statutes

A practical and lively discussion of the English Law on statutes.

Legal Challenges in EU Administrative Law

But European administrative law is a work under construction. This book helps to explore the current state of affairs. Thomas Gross, Common Market Law Review Drs Hofmann and Türk made a name for themselves in the field of EU administrative law with their first collection of edited essays, EU Administrative Governance (Edward Elgar) 2006, which was well reviewed and made an important contribution to the subject. The focus of their new collection, Legal Challenges in EU Administrative Law, is accountability, internal through structures and procedures and external through courts and

auditors. With its many useful contributions from well-known experts it promises well. Carol Harlow, London School of Economics, UK The move towards a system of integrated administration in the EU poses considerable legal challenges. This book explores ways in which accountability, legality, legitimacy and efficiency can be ensured in the multiple forms of co-operation of European and national administrations in the delivery of EU and EC policies. Examining the procedures and structures of European administrative integration, this innovative book will be a stimulating read for academics, researchers and both undergraduate and postgraduate students in European law.

Research Handbook on Global Administrative Law

This Handbook explores the main themes and topics of the emerging field of Global Administrative Law with contributions by leading scholars and experts from universities and organizations around the world. The variety of the subjects addressed and the internationality of the Handbook's perspectives make for a truly global and multi-dimensional view of the field. The book first examines the growth of global administrations, their interactions within global networks, the emergence of a global administrative process, and the development of the rule of law and democratic principles at a global level. It goes on to illustrate the relationship between global law and other legal orders, with particular attention to regional systems and national orders. The final section, devoted to the emergence of a global legal culture, brings the book full circle by identifying the growth of a global epistemic community. The Research Handbook on Global Administrative Law provides a contemporary overview of the nascent field in detailed yet accessible terms, making it a valuable book for university courses. Academics and scholars with an interest in international law, administrative law, public law, and comparative law will find value in this book, as well as legal professionals involved with international and supranational organizations and national civil servants dealing with supranational organizations.

Global Administrative Law and EU Administrative Law

This book seeks to enrich and refine global administrative law and EU administrative law analytical tools by examining their manifold relations. Its aim is to begin to explore the complex reality of the interactions between EU administrative law and global administrative law, to provide a preliminary map of such legal and institutional reality, and to review it. The book is the first attempt to analyze a dense area of new legal issues. The first part of the book contains core elements of a general theory of the relationships between global and EU administrative law: comparative inquiries, exchanges of legal principles, and developing linkages. The second part is devoted to special regulatory regimes, in which global and European law coexist, though not always peacefully. Several sectors are considered: cultural heritage, medicines, climate change, antitrust, accounting and auditing, banking supervision, and public procurement.

A Magna Carta for Children?

This book highlights the importance of law, policy and rights in improving children's lives, combining historical analysis and human rights law.

Making Comparisons in Equality Law

Why do comparisons matter? -- Establishing an effective right to equal pay for equal work -- Comparing across the ages -- Comparisons when equality rights are in conflict.

English Law Under Two Elizabeths

A novel experiment in comparative legal history, exploring the legal world in England during two different periods.

Fairness in Criminal Justice

In the 2016 Hamlyn Lectures, Chief Justice of New Zealand, Dame Sian Elias critiques recent changes in criminal justice systems.

Democratic Dialogue and the Constitution

Constitutions divide into those that provide for a constitutionally protected set of rights, where courts can strike down legislation, and those where rights are protected predominantly by parliament, where

courts can interpret legislation to protect rights, but cannot strike down legislation. The UK's Human Rights Act 1998 is regarded as an example of a commonwealth model of rights protections. It is justified as a new form of protection of rights which promotes dialogue between the legislature and the courts - dialogue being seen not just as a better means of protecting rights, but as a new form of constitutionalism occupying a middle ground between legal and political constitutionalism. This book argues that there is no clear middle ground for dialogue to occupy, with most theories of legal and political constitutionalism combining legal and political protections, as well as providing an account of interactions between the legislature and the judiciary. Nevertheless, dialogue has a role to play. It differs from legal and political constitutionalism in terms of the assumptions on which it is based and the questions it asks. It focuses on analysing mechanisms of inter-institutional interactions, and assessing when these interactions can provide a better protection of rights, facilitate deliberation, engage citizens, and act as an effective check and balance between institutions of the constitution. This book evaluates dialogue in the UK constitution, assessing the protection of human rights through the Human Rights Act 1998, the common law, and EU law. It also evaluates court-court dialogue between the UK court, the European Court of Justice, and the European Court of Human Rights. The conclusion evaluates the implications of the proposed British Bill of Rights and the referendum decision to leave the European Union.

Can Human Rights Survive?

In this 2006 book, Conor Gearty confronts the challenges that may destroy the language of human rights for future generations.

The United Kingdom and Human Rights

Academic attention has, in recent years, increasingly focused upon the Europeanization of national legal orders. The interaction of domestic and supranational standards, while often presented as problematic, enables national courts to use European law as a reference point against which to develop domestic principle and practice. The effects of such borrowing can be far-reaching. Courts may assume an enhanced institutional role relative to other branches of the State and individuals may benefit from the introduction of new remedies and principles of judicial review. This book examines the dynamics of the process whereby UK courts borrow principle and practice from European law. It argues that recent internal developments in UK law, notably the passage of the Human Rights Act, present new possibilities for legal integration. Although UK courts have already demonstrated a willingness to use European law creatively, the book suggests that integration has been unduly constrained by the previously unincorporated status of the ECHR and by the courts' justification for the reception of EU law. Focusing in particular on the principles of administrative law applied by courts in judicial review proceedings, the book highlights how the emergence of new principles of review has been frustrated by the courts' inability to view EU law and the ECHR as part of an interlocking whole. The book's central argument, therefore, is that the Human Rights Act, coupled with the more general programme of constitutional reform introduced by New Labour, now offers the courts the opportunity to reassess the nature of the interactive relationship that domestic law has with European law. UK Public Law and European Law: The Dynamics of Legal Integration will be of interest to public lawyers, European lawyers and political scientists alike. It offers a comprehensive overview of existing jurisprudence dealing with the reception of European law into the domestic order. More significantly, it places that jurisprudence within the wider context of legal and political change ongoing within and without the United Kingdom.

UK Public Law and European Law

This is a legal evaluation of the ways in which the EU delivers policy. It assesses the role of law therein from a contextual and inter-disciplinary perspective and considers in-depth the principles of EU judicial review applicable to EU administration and that of the Member States.

European Administrative Law and the Global Challenge

Co-rapporteur: mrs. Mavis Maclean.

EU Administrative Law

This textbook completes the Foundations in Law Series which covers the core subjects of the CPE. Written in an accessible style, it follows the CPE guidelines for constitutional and administrative law

and the contemporary trend for increased European emphasis, both with respect to the EU and the European Convention on Human Rights.

Administrative Justice

This text explores administrative law from a socio-legal perspective against a background of constitutional principles. It scrutinizes the current institutions in the light of constitutional ideals and highlights the discrepancies between underlying aims and reality. It considers, in the broad sense, how legal techniques are used in the development and implementation of government policy and to what extent this allows for the enhancement of democratic participation and legitimacy of decision-making. It also gives due weight to all means of resolving grievances against the state, not just via the courts.

Administrative Discretion and Problems of Accountability

This book takes an innovative approach to provide a mirror perspective of the legal systems of the UK and the EU in contemporary institutional scenarios. It will be essential reading for those working in the areas of European public regulatory law.

Constitutional and Administrative Law

This Handbook uses a thematic and interdisciplinary approach to discuss and analyse the various governance structures of the EU, focusing in particular on how these are administered. Key chapters, written by leading experts across the field, engage with important ongoing debates in the field of EU administrative law, focusing on areas of topical interest such as financial markets, the growing security state and problematic common asylum procedures. In doing so, they provide a summary of what we know, don't know and ought to know about EU administrative law. Examining the control functions of administrative law and the machinery for accountability, this Research Handbook eloquently challenges areas of authoritarian governance, such as the Eurozone and security state, where control and accountability are weak and tackles the seemingly insoluble question of citizen 'voice' and access to policy making. Practical and engaging, this timely Research Handbook is sure to appeal to scholars and researchers of EU administrative law and EU law more broadly. Legal practitioners and EU policy makers will also benefit from its high level of engagement with contemporary deliberations.

Administrative Justice

This volume focuses on the concept of a necessary entity through an interlinking with two organizational principles - the principle of cooperation and the principle of hierarchy - which imply the notions of sovereignty, respect, and the ability to undertake joint administrative action in the European Union. The German concept of Europaischer Verwaltungsverbund is translated as "European Composite Administration." After a general introduction to the concept of European Composite Administration, the book's contributions are divided into three parts. In the first section, various fields of European administrative law are analyzed, including: structural funds * European environmental law and the law on plant protection products * financial services and (more specifically) the law on insider dealing * European veterinary and food law * European aviation law * the law on police and customs cooperation * European product safety law * transnational water management * public access to documents. The second part focuses on acts and procedures in the European Composite Administration, such as: an in depth analysis of the Transnational Administrative Act * the general law of procedure of mutual administrative assistance in the European Union * an analysis of the administrative decision as a means of normative law making * the role of inspections as an instrument of implementation * an analysis of EC grant management. The book ends with essays on administrative structures and legal protection, including analyses of: the voidable decision as a form of legal protection * the system of legal protection and liability in EU law * the role of human rights in the transnational cooperation in criminal matters * the transnational ne bis in idem principle. The collection is the result of a continuous cooperation between legal scholars of Utrecht University and the Institute for German and European Administrative Law at Heidelberg University. In part, it was supported by the German and Dutch Research Foundations (the Deutsche Forschungsgemeinschaft (DFG) and the Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO).

Administrative Law and Policy of the European Union

These lectures consider maladministration as it occurs in the course of actions by the officials of government, central and local, in Britain, and considers chiefly the working of certain institutions through which it is intended that maladministration should be remedied.

European Economic Legal Order After Brexit

Explores the English origins of the principles of judicial review in common law jurisdictions and autochthonous pressures for their adaptation.

Research Handbook on Eu Administrative Law

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Constitutional Fundamentals

While the EU agencies that have been granted the power to adopt binding decisions are a diverse group, they at least share one feature: in all of them an organisationally separate administrative review body, i.e. a board of appeal, has been established. The review procedures before these boards must be exhausted before private parties can seize the EU courts and the boards therefore all fulfil a similar function: filtering cases before they end up before the courts and providing parties by expert-driven review. Sharing this common function as well as some common features, the boards of appeal of the different agencies remain heterogenous in their set up and functioning. This raises a host of questions from both a theoretic and practical perspective which this volume analyses in depth: how do the boards function, which kind of review do they offer, and how should they be conceptualized in the EU's overall system of legal protection against administrative action? To answer these questions, the volume's first part presents a series of case studies, covering all the EU boards of appeal currently in existence, while a second part looks into the horizontal issues raised by the phenomenon of the boards of appeal.

The European Composite Administration

The Committee for Standards in Public Life felt that the time was right to undertake a review of the key lessons that have been learnt since the Nolan Committee's first report (ISBN 9780101285025) was published in 1995 about how to improve ethical standards in public life - to stand back and reflect on what has been achieved and what still needs to be done. The report argues that much of the basic infrastructure to improve standards is now in place. Statements of key principles and codes of conduct have been adopted by most public bodies, new regulators have been created or had their existing remits clarified, and awareness of principles such as integrity, accountability and openness has increased considerably. The Committee believes standards of behaviour in many areas of public life have improved. But the Committee finds it disturbing that concerns continue to be raised about the integrity of so many of the country's key institutions or those within them; and the evidence of the last few years and months suggests that there is still much to do before the high standards in public life to which we all aspire are fully internalised in the cultures of all our public institutions. The report concludes that the need now is not for more principles, codes or regulators but rather for the existing arrangements to be more consistently and actively implemented.

Maladministration and Its Remedies

In January 2009, the then Master of the Rolls, Sir Anthony Clarke, appointed Lord Justice Jackson to lead a fundamental review of the rules and principles governing the costs of civil litigation. This report intends to establish how the costs rules operate and how they impact on the behavior of both parties and lawyers.

Judicial Review of Administrative Action

Physical Properties of Ceramic and Carbon Nanoscale Structures

This is the second volume in a series of books on selected topics in Nanoscale Science and Technology based on lectures given at the well-known INFN schools of the same name. The aim of this collection is to provide a reference corpus of suitable, introductory material to relevant subfields, as they mature over time, by gathering the significantly expanded and edited versions of tutorial lectures, given over the years by internationally known experts. The present set of notes stems in particular from the participation and dedication of prestigious lecturers, such as Andrzej Huczko, Nicola Pugno, Alexander Malesevic, Pasquale Onorato and Stefano Bellucci. All lectures were subsequently carefully edited and reworked, taking into account the extensive follow-up discussions. A tutorial lecture by Huczko et al. shows how a variety of carbon and ceramic nanostructures (nanotubes, nanowires, nanofibres, nanorods, and nanoencapsulates) have in particular great potential for improving our understanding of the fundamental concepts of the roles of both dimensionality and size on physical material properties. Bellucci and Onorato provide an extensive and tutorial review of the (quantum) transport properties in carbon nanotubes, encompassing a description of the electronic structure from graphene to single-wall nanotubes, as well as a discussion of experimental evidence of superconductivity in carbon nanotubes and the corresponding theoretical interpretation. In the first contribution by Pugno, new ideas on how to design futuristic self-cleaning, super-adhesive and releasable hierarchical smart materials are presented. He also reviews the mechanical strength of such nanotubes and megacables, with an eye to the visionary project of a carbon nanotube-based 'space elevator megacable'. In his second contribution, Pugno outlines in detail the role on the fracture strength of thermodynamically unavoidable atomistic defects with different size and shape, both numerically and theoretically, for nanotubes and nanotube bundles. Focusing on graphitic allotropes, the chapter by Bellucci and Malesevic aims to give a taste of the widespread implications carbon nanostructures have on research and applications, starting from an historical overview, followed by a discussion of the structure and physical properties of carbon nanotubes and graphene, in particular in the context of the several different synthesis techniques presently available.

Nanoscience and Nanotechnology, Proceedings of the INFN-LNF 2018 Conference

The results presented in this volume highlight some of the most recent advances in nanoscience and nanotechnology studies, from both the physical and chemical point of view, with an eye also to possible engineering applications. These studies demonstrate directly how effective, and at the same time stimulating is implementing the "cross-fertilization" procedure. Indeed, multidisciplinary research allows one to catch more easily the analogies inherent different areas of science, as well as to take advantage and optimize different methods and techniques, often borrowed from other research areas. In the present Special Issue, we included six published papers. The latter contributions, on the one hand, are developed at the theory level and, on the other hand, show experimental results on the realization and experimental characterization of nanostructured systems, suitable for yielding progress towards the realization of systems and devices, that can ultimately lead to industrial applications. The results show that recent scientific research advances in these areas may provide important steps in the direction of fostering innovation and technological development.

Self-Assembly of Nanostructures

This is the third volume in a series of books on selected topics in Nanoscale Science and Technology based on lectures given at the well-known Istituto Nazionale di Fisica Nucleare (INFN) schools of the same name. The present set of notes stems in particular from the participation and dedication of prestigious lecturers, such as Nunzio Motta, Fulvia Patella, Alexandr Toropov, and Anna Sgarlata. All lectures have been carefully edited and reworked, taking into account extensive follow-up discussions. A tutorial lecture by Motta et al. presents the analysis of the Poly(3-hexylthiophene) self assembly on carbon nanotubes and discusses how the interaction between the two materials forms a new hybrid nanostructure, with potential application to future solar cells technology. In their contribution, Patella et al. review quantum dots of III-V compounds, which offer appealing perspectives for more sophisticated applications in new generation devices such as single-photon emitters for nano-photonics and quantum computing. Focusing on self-assembled quantum dots, the chapter by Alexandr Toropov et al. provides a comprehensive review of some important aspects in the formation of quantum dots and presents the

results of the authors' extensive investigation of the features of droplet epitaxy. The fourth contribution, by Sgarlata et al., focuses on recent progress toward controlled growth of self-assembled nanostructures, dealing with the shaping, ordering and localization in Ge/Si heteroepitaxy and reviewing recent results on the self-organization of Ge nanostructures at Si surfaces.

Nanotechnology and the Resource Fallacy

Dwindling global supplies of conventional energy and materials resources are widely thought to severely constrain, or even render impossible, a "first-world" lifestyle for the bulk of Earth's inhabitants. This bleak prospect, however, is wrong. Current energy resources are used grotesquely inefficiently as heat ("fuels," after all, are "burned"), so that well over half of the energy is simply dissipated into the environment. In turn, conventional materials resources, particularly of metals, are geologically anomalous deposits that also are typically processed by the prodigious application of raw heat. Simultaneously, rising levels of pollution worldwide are a challenge to remediate as they require the extraction of pollutants at low concentration. Nanotechnology, the structuring of matter at near-molecular scales. offers the prospect of solving all these problems at a stroke. Non-thermal use of energy, in broad emulation of what organisms do already, will not only lead to more efficient use but make practical diffuse sources such as sunlight. Pollution control and resource extraction become two aspects of the same fundamental problem, the low-energy extraction of particular substances from an arbitrary background of other substances, and this also is in emulation of what biosystems carry out already. This book sketches out approaches both for the efficient, non-thermal use of energy and the molecular extraction of solutes, primarily from aqueous solution, for purification, pollution control, and resource extraction. Some long-term implications for resource demand are also noted. In particular, defect-free fabrication at the molecular level is ultimately likely to make structural metals obsolete.

Carbon Nanotubes

Carbon nanotubes are exceptionally interesting from a fundamental research point of view. Many concepts of one-dimensional physics have been verified experimentally such as electron and phonon confinement or the one-dimensional singularities in the density of states; other 1D signatures are still under debate, such as Luttinger-liquid behavior. Carbon nanotubes are chemically stable, mechanically very strong, and conduct electricity. For this reason, they open up new perspectives for various applications, such as nano-transistors in circuits, field-emission displays, artificial muscles, or added reinforcements in alloys. This text is an introduction to the physical concepts needed for investigating carbon nanotubes and other one-dimensional solid-state systems. Written for a wide scientific readership, each chapter consists of an instructive approach to the topic and sustainable ideas for solutions. The former is generally comprehensible for physicists and chemists, while the latter enable the reader to work towards the state of the art in that area. The book gives for the first time a combined theoretical and experimental description of topics like luminescence of carbon nanotubes, Raman scattering, or transport measurements. The theoretical concepts discussed range from the tight-binding approximation, which can be followed by pencil and paper, to first-principles simulations. We emphasize a comprehensive theoretical and experimental understanding of carbon nanotubes including - general concepts for one-dimensional systems - an introduction to the symmetry of nanotubes - textbook models of nanotubes as narrow cylinders - a combination of ab-initio calculations and experiments - luminescence excitation spectroscopy linked to Raman spectroscopy - an introduction to the 1D-transport properties of nanotubes - effects of bundling on the electronic and vibrational properties and - resonance Raman scattering in nanotubes.

Physical Properties Of Carbon Nanotubes

This is an introductory textbook for graduate students and researchers from various fields of science who wish to learn about carbon nanotubes. The field is still at an early stage, and progress continues at a rapid rate. This book focuses on the basic principles behind the physical properties and gives the background necessary to understand the recent developments. Some useful computational source codes which generate coordinates for carbon nanotubes are also included in the appendix.

Carbon Nanotubes

After a short introduction and a brief review of the relation between carbon nanotubes, graphite and other forms of carbon, the synthesis techniques and growth mechanisms for carbon nanotubes

are described. This is followed by reviews on nanotube electronic structure, electrical, optical, and mechanical properties, nanotube imaging and spectroscopy, and nanotube applications.

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B-C-N Nanotubes and Related Nanostructures

Carbon nanotubes (CNTs) and Boron nitride nanotubes (BNNTs) are part of the so-called B-C-N material system, which includes novel nanostructures of carbon (C), doped-carbon, boron (B), boron nitride (BN), carbon nitride (CNx), boron-carbon nitride (BxCyNz), and boron carbide (BxCy). BNNTs and CNTs are structurally similar and share extraordinary mechanical properties, but they differ in chemical, biological, optical, and electrical properties. Therefore, hybrid nanotubes constructed of B, C, N elements are expected to form a new class of nanotubes with tunable properties between those of CNTs and BNNTs. In addition, these B-C-N nanostructures will further enhance and complement the applications of CNTs and BNNTs. With contributions from leading experts, B-C-N Nanotubes and Related Nanostructures is the first book to cover all theoretical and experimental aspects of this emerging material system, and meets the need for a comprehensive summary of the tremendous advances in research on B-C-N materials in recent years.

The Feynman Lectures on Physics, Vol. II

New edition features improved typography, figures and tables, expanded indexes, and 885 new corrections.

Nanoscale Photonics and Optoelectronics

The intersection of nanostructured materials with photonics and electronics shows great potential for clinical diagnostics, sensors, ultrafast telecommunication devices, and a new generation of compact and fast computers. Nanophotonics draws upon cross-disciplinary expertise from physics, materials science, chemistry, electrical engineering, biology, and medicine to create novel technologies to meet a variety of challenges. This is the first book to focus on novel materials and techniques relevant to the burgeoning area of nanoscale photonics and optoelectronics, including novel-hybrid materials with multifunctional capabilities and recent advancements in the understanding of optical interactions in nanoscale materials and quantum-confined objects. Leading experts provide a fundamental understanding of photonics and the related science and technology of plasmonics, polaritons, quantum dots for nanophotonics, nanoscale field emitters, near-field optics, nanophotonic architecture, and nanobiophotonic materials.

Introduction to Nanofiber Materials

Presents the fundamentals and applications of nanofibrous materials and their structures to graduate students and researchers in materials science.

Nuclear Physics for Cultural Heritage

Nuclear physics applications in medicine and energy are well known and widely reported. Less well known are the many important nuclear and related techniques used for the study, characterization, assessment and preservation of cultural heritage. There has been enormous progress in this field in recent years and the current review aims to provide the public with a popular and accessible account of this work. The Nuclear Physics Division of the EPS represents scientists from all branches of nuclear physics across Europe. One of its aims is the dissemination of knowledge about nuclear physics and its applications. This review is led by Division board member Anna Macková, Head of the Tandetron Laboratory at the Nuclear Physics Institute of the Czech Academy of Sciences, and the review committee includes four other members of the nuclear physics board interested in this area: Faiçal Azaiez, Johan Nyberg, Eli Piasetzky and Douglas MacGregor. To create a truly authoritative account, the Scientific Editors have invited contributions from leading experts across Europe, and this publication

is the combined result of their work. The review is extensively illustrated with important discoveries and examples from archaeology, pre-history, history, geography, culture, religion and curation, which underline the breadth and importance of this field. The large number of groups and laboratories working in the study and preservation of cultural heritage across Europe indicate the enormous effort and importance attached by society to this activity

Nanoscale Phenomena

This book collects selected lectures from the Third Workshop of the Croucher Advanced Study Institute on Nano Science and Technology, and showcases contributions from world-renowned researchers. The book presents in-depth articles on the latest developments in nanomaterials and nanotechnology, and provides a cross-disciplinary perspective covering physics and biophysics, chemistry, materials science, and engineering.

Quantum Dot Solar Cells

The third generation of solar cells includes those based on semiconductor quantum dots. This sophisticated technology applies nanotechnology and quantum mechanics theory to enhance the performance of ordinary solar cells. Although a practical application of quantum dot solar cells has yet to be achieved, a large number of theoretical calculations and experimental studies have confirmed the potential for meeting the requirement for ultra-high conversion efficiency. In this book, high-profile scientists have contributed tutorial chapters that outline the methods used in and the results of various quantum dot solar cell designs, including quantum dot intermediate band solar cells, hot electron quantum dot solar cells, quantum-dot sensitized solar cells, colloidal quantum dot solar cells, hybrid polymer-quantum dot solar cells, and MEG quantum dot solar cells. Both theoretical and experimental approaches are described. Quantum Dot Solar Cells helps to connect the fundamental laws of physics and the chemistry of materials with advances in device design and performance. The book can be recommended for a broad audience of chemists, electrical engineers, and materials scientists, and is suitable for use in courses on materials and device design for advanced and future optoelectronics.

Nanomaterials

Nanomaterials and nanostructures are the original product of nanotechnology, and the key building blocks for enabling technologies. In this context, this book presents a concise overview of the synthesis and characterization methods of nanomaterials and nanostructures, while integrating facets of physics, chemistry, and engineering. The book summarizes the fundamentals and technical approaches in synthesis, and processing of nanostructures and nanomaterials, so as the reader can have a systematic and quick picture of the field. This book focuses on functional aspects of nanomaterials that have a high relevance to immediate applications, such as catalysis, energy harvesting, biosensing, and surface functionalization. There are chapters addressing nanostructured materials and composites and covering basic properties and requirements of this new class of engineered materials.

Proceedings of the 2nd International Conference on Electronic Engineering and Renewable Energy Systems

This book includes papers presented at the Second International Conference on Electronic Engineering and Renewable Energy (ICEERE 2020), which focus on the application of artificial intelligence techniques, emerging technology and the Internet of things in electrical and renewable energy systems, including hybrid systems, micro-grids, networking, smart health applications, smart grid, mechatronics and electric vehicles. It particularly focuses on new renewable energy technologies for agricultural and rural areas to promote the development of the Euro-Mediterranean region. Given its scope, the book is of interest to graduate students, researchers and practicing engineers working in the fields of electronic engineering and renewable energy.

Breaking of Supersymmetry and Ultraviolet Divergences in Extended Supergravity

This is the seventh volume in a series on the general topics of supersymmetry, supergravity, black objects (including black holes) and the attractor mechanism. The present volume is based on lectures held in March 2013 at the INFN-Laboratori Nazionali di Frascati during the Breaking of supersymmetry and Ultraviolet Divergences in extended Supergravity Workshop (BUDS 2013), organized by Stefano Bellucci, with the participation of prestigious speakers including P. Aschieri, E. Bergshoeff, M. Ceder-

wall, T. Dennen, P. Di Vecchia, S. Ferrara, R. Kallosh, A. Karlsson, M. Koehn, B. Ovrut, A. Van Proeyen, G. Ruppeiner. Special attention is devoted to discussing topics related to the cancellation of ultraviolet divergences in extended supergravity and Born-Infeld-like actions. All talks were followed by extensive discussions and subsequent reworking of the various contributions a feature which is reflected in the unique "flavor" of this volume.

Toward Functional Nanomaterials

This book presents a detailed overview of recent research developments on functional nanomaterials, including synthesis, characterization, and applications. This state-of-the-art book is multidisciplinary in scope and international in authorship.

Fusion Neutronics

This book provides a systematic and comprehensive introduction to fusion neutronics, covering all key topics from the fundamental theories and methodologies, as well as a wide range of fusion system designs and experiments. It is the first-ever book focusing on the subject of fusion neutronics research. Compared with other nuclear devices such as fission reactors and accelerators, fusion systems are normally characterized by their complex geometry and nuclear physics, which entail new challenges for neutronics such as complicated modeling, deep penetration, low simulation efficiency, multi-physics coupling, etc. The book focuses on the neutronic characteristics of fusion systems and introduces a series of theories and methodologies that were developed to address the challenges of fusion neutronics. Further, it introduces readers to the unique principles and procedures of neutronics design, experimental methodologies and methodologies for fusion systems. The book not only highlights the latest advances and trends in the field, but also draws on the experiences and skills collected in the author's more than 40 years of research. To make it more accessible and enhance its practical value, various representative examples are included to illustrate the application and efficiency of the methods, designs and experimental techniques discussed.

Nonregular Nanosystems

This book presents a systemic view of nanophenomena in terms of disordered condensed media with characteristics arising at various hierarchical levels from nanoagents/nanoparticles through multiple technological interfaces to the creation of micro- or mesostructures with essential nanodimensional effects. These properties can be seen in various schemes for the functionalization of nanocarbon systems, namely, CNTs, GNRs, GNFs, carbon-based nanoaerogels, nanofoams, and so on, where nonregularities characterize surface nanointeractions and various nanointerconnects, resulting in both predictable and unpredictable effects. Beginning with nanosensing and finishing with other forms of functionalized nanomaterials, these effects will define the prospective qualities of future consumer nanoproducts and nanodevices. This book covers all aspects of nonregular nanosystems arising from the fundamental properties of disordered nanosized media, from electronic structure, surface nanophysics, and allotropic forms of carbon such as graphene and fullerenes including defect characterization, to spintronics and 3D device principles. Nonregular Nanosystems will be of interest to students and specialists in various fields of nanotechnology and nanoscience, experts on surface nanophysics and nanochemistry, as well as managers dealing with marketing of nanoproducts and consumer behavior research.

Toward a Science Campus in Milan

This book is a collection of multidisciplinary papers presented at the Department of Physics of Milan University's congress on 28 and 29 June 2017, which was also intended as a kick-off meeting for the design of a novel science campus at the Expo site in Milan. The congress presented a snapshot of the department's research to the academic community, the media, policymakers and authorities as well as the public at large, and also provided an opportunity to strengthen interdisciplinary collaborations between the members of the department and other communities. This book is a valuable resource for scientists looking for synergetic projects, policymakers wanting to grasp scientists' points of view and for prospective graduate students seeking expanding areas of research.

Mesoscopic Physics and Electronics

Semiconductor technology has developed considerably during the past several decades. The exponential growth in microelectronic processing power has been achieved by a constant scaling down of integrated cir,cuits. Smaller fea ture sizes result in increased functional density, faster speed, and lower costs. One key ingredient of the LSI technology is the development of the lithog raphy and microfabrication. The current minimum feature size is already as small as 0.2 /tm, beyond the limit imposed by the wavelength of visible light and rapidly approaching fundamental limits. The next generation of devices is highly likely to show unexpected properties due to quantum effects and fluctuations. The device which plays an important role in LSIs is MOSFETs (metal oxide-semiconductor field-effect transistors). In MOSFETs an inversion layer is formed at the interface of silicon and its insulating oxide. The inversion layer provides a unique two-dimensional (2D) system in which the electron concentration is controlled almost freely over a very wide range. Physics of such 2D systems was born in the mid-1960s together with the development of MOSFETs. The integer quantum Hall effect was first discovered in this system.

Basic Principles of Nanotechnology

The book allows the reader to have a basic understanding of the structure and properties of nanoscale materials routinely used in nanotechnology-based research and industries. To add, the book describes the operation of nanoscale transistors and the processes used to fabricate the devices. Additionally, it presents research involving the use of carbon nanotubes, graphene, and molecules to create non-silicon based electronic devices. It aims to provide an understanding of the operation of the most frequently used fabrication and characterization procedures, such as scanning electron microscopy, atomic force microscopy, etch, e-beam lithography, and photolithography. Provides explanations of the common techniques used in nanofabrication. Focuses on nanomaterials that are almost exclusively used in academic research and incorporated in consumer materials, such as carbon nanotubes, graphene, metal nanoparticles, quantum dots, and conductive polymers. Each chapter begins with a list of key objectives describing major content covered. Includes end-of-chapter questions to reinforce chapter content.

Introduction to Nanoscience

Nanoscience is not physics, chemistry, engineering or biology. It is all of them, and it is time for a text that integrates the disciplines. This is such a text, aimed at advanced undergraduates and beginning graduate students in the sciences. The consequences of smallness and quantum behaviour are well known and described Richard Feynman's visionary essay 'There's Plenty of Room at the Bottom' (which is reproduced in this book). Another, critical, but thus far neglected, aspect of nanoscience is the complexity of nanostructures. Hundreds, thousands or hundreds of thousands of atoms make up systems that are complex enough to show what is fashionably called 'emergent behaviour'. Quite new phenomena arise from rare configurations of the system. Examples are the Kramer's theory of reactions (Chapter 3), the Marcus theory of electron transfer (Chapter 8), and enzyme catalysis, molecular motors, and fluctuations in gene expression and splicing, all covered in the final Chapter on Nanobiology. The book is divided into three parts. Part I (The Basics) is a self-contained introduction to quantum mechanics, statistical mechanics and chemical kinetics, calling on no more than basic college calculus. A conceptual approach and an array of examples and conceptual problems will allow even those without the mathematical tools to grasp much of what is important. Part II (The Tools) covers microscopy, single molecule manipulation and measurement, nanofabrication and self-assembly. Part III (Applications) covers electrons in nanostructures, molecular electronics, nano-materials and nanobiology. Each chapter starts with a survey of the required basics, but ends by making contact with current research literature.

UniCa PhD Book. XXXIII Cycle

A Solid Compendium of Advanced Diagnostic and Simulation Tools Exploring the most exciting and topical areas in this field, Laser-Plasma Interactions focuses on the interaction of intense laser radiation with plasma. After discussing the basic theory of the interaction of intense electromagnetic radiation fields with matter, the book covers three applications of intense fields in plasma: inertial fusion, wakefield accelerators, and advanced radiation sources. Collecting contributions from a host of international experts, the book provides a thorough grounding in the fundamental concepts of the interaction of electromagnetic radiation with matter, before moving on to selected advanced topics from the field. It describes state-of-the-art diagnostic tools and experimental techniques used to study

laser-plasma interactions as well as simulation tools for modeling these interactions. With a focus on current research trends, this book guides readers to the brink of the most stimulating challenges in the field. It also gives readers an appreciation of the underlying phenomena linking several applications.

Laser-Plasma Interactions

The First Conference on materials science and engineering, including physics, physical chemistry, condensed matter chemistry, and technology in general, was held in September 1995, in Herceg Novi. An initiative to establish Yugoslav Materials Research Society was born at the conference and, similar to other MR societies in the world, the programme was made and objectives determined. The Yugoslav Materials Research Society (Yu-MRS), a nongovernment and non-profit scientific association, was founded in 1997 to promote multidisciplinary goal-oriented research in materials science and engineering. The main task and objective of the Society has been to encourage creativity in materials research and engineering to reach a harmonic coordination between achievements in this field in our country and analogous activities in the world with an aim to include our country into global international projects. Until 2003, Conferences were held every second year and then they grew into Annual Conferences that were traditionally held in Herceg Novi in September of every year. In 2007 Yu-MRS formed two new MRS: MRS-Serbia (official successor of Yu-MRS) and MRS-Montenegro (in founding). In 2008, MRS – Serbia became a member of FEMS (Federation of European Materials Societies). The Twelfth Annual Conference YUCOMAT 2010 was held on September 6-10, 2010 in Heceg Novi, Montenegro

Programme and The Book of Abstracts / Twelfth Annual Conference YUCOMAT 2010

This book describes the latest progress in the application of nanotechnology for water treatment and purification. Leaders in the field present both the fundamental science and a comprehensive overview of the diverse range of tools and technologies that have been developed in this critical area. Expert chapters present the unique physicochemical and surface properties of nanoparticles and the advantages that these provide for engineering applications that ensure a supply of safe drinking water for our growing population. Application areas include generating fresh water from seawater, preventing contamination of the environment and creating effective and efficient methods for remediation of polluted waters. The chapter authors are leading world-wide experts in the field with either academic or industrial experience, ensuring that this comprehensive volume presents the state-of-the-art in the integration of nanotechnology with water treatment and purification.

Nanotechnology for Water Treatment and Purification

This book presents some of the latest achievements in nanotechnology and nanomaterials from leading researchers in Ukraine, Europe, and beyond. It features contributions from participants in the 3rd International Science and Practice Conference Nanotechnology and Nanomaterials (NANO2015) held in Lviv, Ukraine on August 26-30, 2015. The International Conference was organized jointly by the Institute of Physics of the National Academy of Sciences of Ukraine, University of Tartu (Estonia), Ivan Franko National University of Lviv (Ukraine), University of Turin (Italy), Pierre and Marie Curie University (France), and European Profiles A.E. (Greece). Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key results on topics ranging from nanooptics, nanoplasmonics, and interface studies to energy storage and biomedical applications.

Nanophysics, Nanophotonics, Surface Studies, and Applications

For the efficient utilization of energy resources and the minimization of environmental damage, thermoelectric materials can play an important role by converting waste heat into electricity directly. Nanostructured thermoelectric materials have received much attention recently due to the potential for enhanced properties associated with size effects and quantum confinement. Nanoscale Thermoelectrics describes the theory underlying these phenomena, as well as various thermoelectric materials and nanostructures such as carbon nanotubes, SiGe nanowires, and graphene nanoribbons. Chapters written by leading scientists throughout the world are intended to create a fundamental bridge between thermoelectrics and nanotechnology, and to stimulate readers' interest in developing new types of thermoelectric materials and devices for power generation and other applications. Nanoscale Thermoelectrics is both a comprehensive introduction to the field and a guide to further research, and can be recommended for Physics, Electrical Engineering, and Materials Science departments.

Nanoscale Thermoelectrics

Sensors and Microsystems contains a selection of papers presented at the 15th Italian Conference on Sensors and Microsystems. It provides a unique perspective on the research and development of sensors, microsystems and related technologies in Italy. The scientific values of the papers also offers an invaluable source to analysts intending to survey the Italian situation about sensors and microsystems. In an interdisciplinary approach many aspects of the disciplines are covered, ranging from materials science, chemistry, applied physics, electronic engineering and biotechnologies.

Sensors and Microsystems

"Microsystems and Nanotechnology" presents the latest science and engineering research and achievements in the fields of microsystems and nanotechnology, bringing together contributions by authoritative experts from the United States, Germany, Great Britain, Japan and China to discuss the latest advances in microelectromechanical systems (MEMS) technology and micro/nanotechnology. The book is divided into five parts – the fundamentals of microsystems and nanotechnology, microsystems technology, nanotechnology, application issues, and the developments and prospects – and is a valuable reference for students, teachers and engineers working with the involved technologies. Professor Zhaoying Zhou is a professor at the Department of Precision Instruments & Mechanology, Tsinghua University, and the Chairman of the MEMS & NEMS Society of China. Dr. Zhonglin Wang is the Director of the Center for Nanostructure Characterization, Georgia Tech, USA. Dr. Liwei Lin is a Professor at the Department of Mechanical Engineering, University of California at Berkeley, USA.

Microsystems and Nanotechnology

Nanotechnology has been established in membrane technology for decades. In this book, comprehensive coverage is given to nanotechnology applications in synthetic membrane processes, which are used in different fields such as water treatment, separation of gases, the food industry, military use, drug delivery, air filtration, and green chemistry. Nanomaterials such as carbon nanotubes, nanoparticles, and dendrimers are contributing to the development of more efficient and cost-effective water filtration processes. Gas separation and carbon capture can be significantly improved in flue gas applications. Nanoporous membrane systems engineered to mimic natural filtration systems are being actively developed for use in smart implantable drug delivery systems, bio artificial organs, and other novel nano-enabled medical devices. The microscopic structure of nanoporous ceramic membranes, mainly focusing on zeolite materials, as well as the energy-saving effect of membrane separation, contribute to various chemical synthesis processes. In the food industry, nanotechnology has the potential to create new tools for pathogen detection and packaging. For each application, nanotechnology is mostly used to make composite membranes, and the book provides a detailed look at the mechanisms by which the composite membrane works in each application area.

Nanotechnology in Membrane Processes

Edited by pioneers in this exciting field, and featuring contributions from leading researchers, this book discusses the principles and applications of XFELs.

X-Ray Free Electron Lasers

Edited by internationally recognized authorities in the field, this expanded and updated new edition of the bestselling Handbook, containing more than 100 new articles, is aimed at the design and operation of modern particle accelerators. It is intended as a vade mecum for professional engineers and physicists engaged in these subjects. With a collection of more than 2000 equations, 300 illustrations and 500 graphs and tables, here one will find, in addition to the common formulae of previous compilations, hard-to-find, specialized formulae, recipes and material data pooled from the lifetime experience of many of the world"s most able practitioners of the art and science of accelerators. The eight chapters include both theoretical and practical matters as well as an extensive glossary of accelerator types. Chapters on beam dynamics and electromagnetic and nuclear interactions deal with linear and nonlinear single particle and collective effects including spin motion, beam-environment, beam-beam, beam-electron, beam-ion and intrabeam interactions. The impedance concept and related calculations are dealt with at length as are the instabilities associated with the various interactions mentioned. A chapter on operational considerations includes discussions on the assessment and correction of orbit and optics errors, real-time feedbacks, generation of short photon pulses, bunch

compression, tuning of normal and superconducting linacs, energy recovery linacs, free electron lasers, cooling, space-charge compensation, brightness of light sources, collider luminosity optimization and collision schemes. Chapters on mechanical and electrical considerations present material data and important aspects of component design including heat transfer and refrigeration. Hardware systems for particle sources, feedback systems, confinement and acceleration (both normal conducting and superconducting) receive detailed treatment in a subsystems chapter, beam measurement techniques and apparatus being treated therein as well. The closing chapter gives data and methods for radiation protection computations as well as much data on radiation damage to various materials and devices. A detailed name and subject index is provided together with reliable references to the literature where the most detailed information available on all subjects treated can be found.

Handbook of Accelerator Physics and Engineering

This book captures cutting-edge research in semiconductor quantum dot devices, discussing preparation methods and properties, and providing a comprehensive overview of their optoelectronic applications. Quantum dots (QDs), with particle sizes in the nanometer range, have unique electronic and optical properties. They have the potential to open an avenue for next-generation optoelectronic methods and devices, such as lasers, biomarker assays, field effect transistors, LEDs, photodetectors, and solar concentrators. By bringing together leaders in the various application areas, this book is both a comprehensive introduction to different kinds of QDs with unique physical properties as well as their preparation routes, and a platform for knowledge sharing and dissemination of the latest advances in a novel area of nanotechnology.

Quantum Dot Optoelectronic Devices

This publication evaluates the different coolant options considered for nuclear applications with a fast neutron spectrum (i.e. fusion, fission and accelerators), compiles the latest information in the field and identifies research needs.

Challenges for Coolants in Fast Neutron Spectrum Systems

Organic Superconductors is an introduction to organic conductors and superconductors and a review of the current status of the field. First, organic conductors are described, then the structures and electronic properties of organic superconductors are discussed, illustrated with examples of typical compounds. The book deals in detail with theories of the mechanism of superconductivity, and more briefly with spin-density waves. The design, principle, and synthesis of organic superconductors are also described. This second edition covers the research activities of the last few years.

Organic Superconductors

This is a research-level review volume. It presents both the fundamentals and the advanced research results, covering most part of important aspects of synchrotron radiation applications. Among the broad subjects of synchrotron radiation applications, as the main content of this book we have applications in VUV, soft X-rays, hard X-rays and XFEL (X-ray free electron laser) and important applications by various synchrotron-based techniques and methods, such as ARPES (angle-resolved photoemission spectroscopy), VUV photo-ionization spectroscopy, X-ray absorption/emission spectroscopy and X-ray absorption fine structure, X-ray diffraction, small angle X-ray scattering, X-ray excited optical luminescence, imaging and high pressure techniques. Contents: Angle Resolved Photoemission Spectroscopy Study Utilizing the Synchrotron Radiation (Yan Zhang, Dawei Shen, and Donglai Feng) Synchrotron-Based VUV Photoionization Mass Spectrometry in Combustion Chemistry Research (Nils Hansen, Bin Yang, and Tina Kasper) Developments on Synchrotron X-Ray Diffraction (Qiyun Xie and Xiaoshan Wu) Structural Biology and Synchrotron Radiation (Zihe Rao and Zhiyong Lou) Fluorescence Detected XAS — Unconventional Applications (Hiroyuki Oyanagi) The Application of X-Ray Absorption Fine Structure Spectroscopy in Functional Materials (Zhihu Sun, Xinyi Zhang, and Shiqiang Wei) Small Angle X-Ray Scattering and Its Applications (Zhonghua Wu and Xueging Xing) Crystal-Based X-Ray Medical Imaging Using Synchrotron Radiation and Its Future Prospect (Masami Ando, Naoki Sunaguchi, Yongjin Sung, Daisuke Shimao, Jong-Ki Kim, Gang Li, Yoshifumi Suzuki, Tetsuya Yuasa, Kensaku Mori, Shu Ichihara and Rajiv Gupta) X-Ray Imaging and Its Applications (Tigiao Xiao and Honglan Xie) Synchrotron Radiation Applications in Medicine (Yifeng Peng, Liangqi Wang, Chenglin Liu, Alberto Bravin, Gang Li, Shaoliang Chen, Yongting Wang, Guo-Yuan Yang and Xinyi Zhang) Synchrotron Radiation Applications on High-Pressure Research

(Bo Zou, Kai Wang, Shourui Li and Guangtian Zou) X-Ray Excited Optical Luminescence and Its Applications (Lijia Liu and Xuhui Sun) A Compact X-Ray Free-Electron Laser: SACLA (Hitoshi Tanaka, Takashi Tanaka, Kei Sawada, Makina Yabashi, and Tetsuya Ishikawa) Femtosecond Imaging of Single Particles and Molecules Using X-Ray Free-Electron Lasers (Andrew V Martin and N Duane Loh) Readership: Graduate students and professionals working on synchrotron radiation. Keywords: Angle Resolved Photoemission Spectroscopy (ARPES);Coherent Diffractive Imaging (CDI);Combustion;Detactor Development;Free-Electron Laser;High Pressure;Medical Imaging;Nanomaterials;Photoemission Spectroscopy;Protein Crystallography;Serial Femtosecond Crystallography (SFX);Single Particles and Molecules;Small Angle X-Ray Scattering;Strongly Correlated Materials;Surface X-Ray Diffraction;Synchrotron Radiation Applications;Table Top X-Ray Source;VUV Photoionization Mass Spectrometry;X-Ray Absorption Fine Structure (XAFS);X-Ray Absorption Spectroscopy (XAS);X-Ray Excited Optical Luminescence (XEOL);X-Ray Fluorescence (XRF)Review: Key Features: The book contains the latest synchrotron-based techniques and research results All contributors are specialists or leading scientists in their fields The book includes new techniques and methods that will potentially get wider applications in various disciplines

Synchrotron Radiation Applications

Advances in Control System Technology for Aerospace ...

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Lecture Notes in Control and Information Sciences

This book is a collection of contributions defining the state of current knowledge and new trends in hybrid systems - systems involving both continuous dynamics and discrete events - as described by the work of several well-known groups of researchers. br Hybrid Dynamical Systems presents theoretical advances in ...

UK, EU and Global Administrative Law

A detailed analysis of the foundations and challenges of UK, EU and global administrative law.

The Foundations and Future of Public Law

Public law in the UK and EU has undergone seismic changes over the last forty years: development and membership of the EU, the Human Rights Act, devolution, the fostering of public law expertise within the judiciary, the globalization of public law, and the increased interaction between the academy, judiciary, barristers, public interest groups, and legislatures have transformed the public law landscape. Commentators spend much time at the frontiers of the subject, responding rapidly to new developments and providing guidance to scholars, legislators, and judges for future directions. In these circumstances, there is rarely a chance to reflect upon the implications of these changes for the fundamentals of public law and how those fundamentals relate to one another. In this collection, leading figures in UK and EU public law address this lacuna. Inspired by the depth, scope, and ambition of the work of Paul Craig, Professor of English Law at Oxford University, the focus of this collection is upon exploring and reflecting upon six fundamentals of public law and the interrelationship between them: legislation, case law, theory, institutions, process, and constitutions.

Values in Global Administrative Law

Global Administrative Law has recently emerged as one of the most important contemporary fields in public law scholarship. Concerned with developing fuller understandings of patterns in global governance, it represents one of the most insightful ways of viewing the multifarious forms of public power that now exist beyond the State. The present collection brings together some of the leading scholars working in the field of global administrative law to address past and future challenges related to global governance. Each of the contributions picks up on the more general theme of the values that do or should inform global administrative law, and the book in this way provides a novel and thought-provoking commentary on this most engaging area of debate. Values in Global Administrative Law will be of interest to public lawyers, social and political scientists and scholars of international relations. It will also be an invaluable resource for undergraduate and postgraduate courses that touch partly or exclusively on the challenges of global governance.

Global Administrative Law and EU Administrative Law

This book seeks to enrich and refine global administrative law and EU administrative law analytical tools by examining their manifold relations. Its aim is to begin to explore the complex reality of the interactions between EU administrative law and global administrative law, to provide a preliminary map of such legal and institutional reality, and to review it. The book is the first attempt to analyze a dense area of new legal issues. The first part of the book contains core elements of a general theory

of the relationships between global and EU administrative law: comparative inquiries, exchanges of legal principles, and developing linkages. The second part is devoted to special regulatory regimes, in which global and European law coexist, though not always peacefully. Several sectors are considered: cultural heritage, medicines, climate change, antitrust, accounting and auditing, banking supervision, and public procurement.

EU Administrative Law

The third edition of EU Administrative Law provides comprehensive coverage of the administrative system in the EU and the principles of judicial review that apply in this area. This revised edition provides important updates on each area covered, including new case law; institutional developments; and EU legislation. These changes are located within the framework of broader developments in the EU. The chapters in the first half of the book deal with all the principal variants of the EU administrative regime. Thus there are chapters dealing with the history and taxonomy of the EU administrative regime; direct administration; shared administration; comitology; agencies; social partners; and the open method of coordination. The coverage throughout focuses on the legal regime that governs the particular form of administration and broader issues of accountability, drawing on literature from political science as well as law. The focus in the second part of the book shifts to judicial review. There are detailed chapters covering all principles of judicial review and the discussion of the law throughout is analytical and contextual. It begins with the principles that have informed the development of EU judicial review. This is followed by a chapter dealing with the judicial system and the way in which reform could impact on the subject matter of the book. There are then chapters dealing with competence; access; transparency; process; law, fact and discretion; rights; equality; legitimate expectations; two chapters on proportionality; the precautionary principle; two chapters on remedies; and the Ombudsman.

The Foundations of European Community Law

Recoge: 1.Community institutions - 2.The community legal system - 3.Community law and the member states - 4.Administrative law.

Unelected Power

Tucker presents guiding principles for ensuring that central bankers and other unelected policymakers remain stewards of the common good.

Thinking About Statutes

A practical and lively discussion of the English Law on statutes.

Legal Challenges in EU Administrative Law

But European administrative law is a work under construction. This book helps to explore the current state of affairs. Thomas Gross, Common Market Law Review Drs Hofmann and Türk made a name for themselves in the field of EU administrative law with their first collection of edited essays, EU Administrative Governance (Edward Elgar) 2006, which was well reviewed and made an important contribution to the subject. The focus of their new collection, Legal Challenges in EU Administrative Law, is accountability, internal through structures and procedures and external through courts and auditors. With its many useful contributions from well-known experts it promises well. Carol Harlow, London School of Economics, UK The move towards a system of integrated administration in the EU poses considerable legal challenges. This book explores ways in which accountability, legality, legitimacy and efficiency can be ensured in the multiple forms of co-operation of European and national administrations in the delivery of EU and EC policies. Examining the procedures and structures of European administrative integration, this innovative book will be a stimulating read for academics, researchers and both undergraduate and postgraduate students in European law.

Research Handbook on Global Administrative Law

This Handbook explores the main themes and topics of the emerging field of Global Administrative Law with contributions by leading scholars and experts from universities and organizations around the world. The variety of the subjects addressed and the internationality of the Handbook's perspectives make for a truly global and multi-dimensional view of the field. The book first examines the growth of global administrations, their interactions within global networks, the emergence of a global administrative

process, and the development of the rule of law and democratic principles at a global level. It goes on to illustrate the relationship between global law and other legal orders, with particular attention to regional systems and national orders. The final section, devoted to the emergence of a global legal culture, brings the book full circle by identifying the growth of a global epistemic community. The Research Handbook on Global Administrative Law provides a contemporary overview of the nascent field in detailed yet accessible terms, making it a valuable book for university courses. Academics and scholars with an interest in international law, administrative law, public law, and comparative law will find value in this book, as well as legal professionals involved with international and supranational organizations and national civil servants dealing with supranational organizations.

Global Administrative Law and EU Administrative Law

This book seeks to enrich and refine global administrative law and EU administrative law analytical tools by examining their manifold relations. Its aim is to begin to explore the complex reality of the interactions between EU administrative law and global administrative law, to provide a preliminary map of such legal and institutional reality, and to review it. The book is the first attempt to analyze a dense area of new legal issues. The first part of the book contains core elements of a general theory of the relationships between global and EU administrative law: comparative inquiries, exchanges of legal principles, and developing linkages. The second part is devoted to special regulatory regimes, in which global and European law coexist, though not always peacefully. Several sectors are considered: cultural heritage, medicines, climate change, antitrust, accounting and auditing, banking supervision, and public procurement.

A Magna Carta for Children?

This book highlights the importance of law, policy and rights in improving children's lives, combining historical analysis and human rights law.

Making Comparisons in Equality Law

Why do comparisons matter? -- Establishing an effective right to equal pay for equal work -- Comparing across the ages -- Comparisons when equality rights are in conflict.

English Law Under Two Elizabeths

A novel experiment in comparative legal history, exploring the legal world in England during two different periods.

Fairness in Criminal Justice

In the 2016 Hamlyn Lectures, Chief Justice of New Zealand, Dame Sian Elias critiques recent changes in criminal justice systems.

Democratic Dialogue and the Constitution

Constitutions divide into those that provide for a constitutionally protected set of rights, where courts can strike down legislation, and those where rights are protected predominantly by parliament, where courts can interpret legislation to protect rights, but cannot strike down legislation. The UK's Human Rights Act 1998 is regarded as an example of a commonwealth model of rights protections. It is justified as a new form of protection of rights which promotes dialogue between the legislature and the courts - dialogue being seen not just as a better means of protecting rights, but as a new form of constitutionalism occupying a middle ground between legal and political constitutionalism. This book argues that there is no clear middle ground for dialogue to occupy, with most theories of legal and political constitutionalism combining legal and political protections, as well as providing an account of interactions between the legislature and the judiciary. Nevertheless, dialogue has a role to play. It differs from legal and political constitutionalism in terms of the assumptions on which it is based and the questions it asks. It focuses on analysing mechanisms of inter-institutional interactions, and assessing when these interactions can provide a better protection of rights, facilitate deliberation, engage citizens, and act as an effective check and balance between institutions of the constitution. This book evaluates dialogue in the UK constitution, assessing the protection of human rights through the Human Rights Act 1998, the common law, and EU law. It also evaluates court-court dialogue between the UK court, the European Court of Justice, and the European Court of Human Rights. The conclusion evaluates the

implications of the proposed British Bill of Rights and the referendum decision to leave the European Union.

Can Human Rights Survive?

In this 2006 book, Conor Gearty confronts the challenges that may destroy the language of human rights for future generations.

The United Kingdom and Human Rights

Academic attention has, in recent years, increasingly focused upon the Europeanization of national legal orders. The interaction of domestic and supranational standards, while often presented as problematic, enables national courts to use European law as a reference point against which to develop domestic principle and practice. The effects of such borrowing can be far-reaching. Courts may assume an enhanced institutional role relative to other branches of the State and individuals may benefit from the introduction of new remedies and principles of judicial review. This book examines the dynamics of the process whereby UK courts borrow principle and practice from European law. It argues that recent internal developments in UK law, notably the passage of the Human Rights Act, present new possibilities for legal integration. Although UK courts have already demonstrated a willingness to use European law creatively, the book suggests that integration has been unduly constrained by the previously unincorporated status of the ECHR and by the courts' justification for the reception of EU law. Focusing in particular on the principles of administrative law applied by courts in judicial review proceedings, the book highlights how the emergence of new principles of review has been frustrated by the courts' inability to view EU law and the ECHR as part of an interlocking whole. The book's central argument, therefore, is that the Human Rights Act, coupled with the more general programme of constitutional reform introduced by New Labour, now offers the courts the opportunity to reassess the nature of the interactive relationship that domestic law has with European law. UK Public Law and European Law: The Dynamics of Legal Integration will be of interest to public lawyers, European lawyers and political scientists alike. It offers a comprehensive overview of existing jurisprudence dealing with the reception of European law into the domestic order. More significantly, it places that jurisprudence within the wider context of legal and political change ongoing within and without the United Kingdom.

UK Public Law and European Law

This is a legal evaluation of the ways in which the EU delivers policy. It assesses the role of law therein from a contextual and inter-disciplinary perspective and considers in-depth the principles of EU judicial review applicable to EU administration and that of the Member States.

European Administrative Law and the Global Challenge

Co-rapporteur: mrs. Mavis Maclean.

EU Administrative Law

This textbook completes the Foundations in Law Series which covers the core subjects of the CPE. Written in an accessible style, it follows the CPE guidelines for constitutional and administrative law and the contemporary trend for increased European emphasis, both with respect to the EU and the European Convention on Human Rights.

Administrative Justice

This text explores administrative law from a socio-legal perspective against a background of constitutional principles. It scrutinizes the current institutions in the light of constitutional ideals and highlights the discrepancies between underlying aims and reality. It considers, in the broad sense, how legal techniques are used in the development and implementation of government policy and to what extent this allows for the enhancement of democratic participation and legitimacy of decision-making. It also gives due weight to all means of resolving grievances against the state, not just via the courts.

Administrative Discretion and Problems of Accountability

This book takes an innovative approach to provide a mirror perspective of the legal systems of the UK and the EU in contemporary institutional scenarios. It will be essential reading for those working in the areas of European public regulatory law.

Constitutional and Administrative Law

This Handbook uses a thematic and interdisciplinary approach to discuss and analyse the various governance structures of the EU, focusing in particular on how these are administered. Key chapters, written by leading experts across the field, engage with important ongoing debates in the field of EU administrative law, focusing on areas of topical interest such as financial markets, the growing security state and problematic common asylum procedures. In doing so, they provide a summary of what we know, don't know and ought to know about EU administrative law. Examining the control functions of administrative law and the machinery for accountability, this Research Handbook eloquently challenges areas of authoritarian governance, such as the Eurozone and security state, where control and accountability are weak and tackles the seemingly insoluble question of citizen 'voice' and access to policy making. Practical and engaging, this timely Research Handbook is sure to appeal to scholars and researchers of EU administrative law and EU law more broadly. Legal practitioners and EU policy makers will also benefit from its high level of engagement with contemporary deliberations.

Administrative Justice

This volume focuses on the concept of a necessary entity through an interlinking with two organizational principles - the principle of cooperation and the principle of hierarchy - which imply the notions of sovereignty, respect, and the ability to undertake joint administrative action in the European Union. The German concept of Europaischer Verwaltungsverbund is translated as "European Composite Administration." After a general introduction to the concept of European Composite Administration, the book's contributions are divided into three parts. In the first section, various fields of European administrative law are analyzed, including: structural funds * European environmental law and the law on plant protection products * financial services and (more specifically) the law on insider dealing * European veterinary and food law * European aviation law * the law on police and customs cooperation * European product safety law * transnational water management * public access to documents. The second part focuses on acts and procedures in the European Composite Administration, such as: an in depth analysis of the Transnational Administrative Act * the general law of procedure of mutual administrative assistance in the European Union * an analysis of the administrative decision as a means of normative law making * the role of inspections as an instrument of implementation * an analysis of EC grant management. The book ends with essays on administrative structures and legal protection, including analyses of: the voidable decision as a form of legal protection * the system of legal protection and liability in EU law * the role of human rights in the transnational cooperation in criminal matters * the transnational ne bis in idem principle. The collection is the result of a continuous cooperation between legal scholars of Utrecht University and the Institute for German and European Administrative Law at Heidelberg University. In part, it was supported by the German and Dutch Research Foundations (the Deutsche Forschungsgemeinschaft (DFG) and the Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO).

Administrative Law and Policy of the European Union

These lectures consider maladministration as it occurs in the course of actions by the officials of government, central and local, in Britain, and considers chiefly the working of certain institutions through which it is intended that maladministration should be remedied.

European Economic Legal Order After Brexit

Explores the English origins of the principles of judicial review in common law jurisdictions and autochthonous pressures for their adaptation.

Research Handbook on Eu Administrative Law

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that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Constitutional Fundamentals

While the EU agencies that have been granted the power to adopt binding decisions are a diverse group, they at least share one feature: in all of them an organisationally separate administrative review body, i.e. a board of appeal, has been established. The review procedures before these boards must be exhausted before private parties can seize the EU courts and the boards therefore all fulfil a similar function: filtering cases before they end up before the courts and providing parties by expert-driven review. Sharing this common function as well as some common features, the boards of appeal of the different agencies remain heterogenous in their set up and functioning. This raises a host of questions from both a theoretic and practical perspective which this volume analyses in depth: how do the boards function, which kind of review do they offer, and how should they be conceptualized in the EU's overall system of legal protection against administrative action? To answer these questions, the volume's first part presents a series of case studies, covering all the EU boards of appeal currently in existence, while a second part looks into the horizontal issues raised by the phenomenon of the boards of appeal.

The European Composite Administration

The Committee for Standards in Public Life felt that the time was right to undertake a review of the key lessons that have been learnt since the Nolan Committee's first report (ISBN 9780101285025) was published in 1995 about how to improve ethical standards in public life - to stand back and reflect on what has been achieved and what still needs to be done. The report argues that much of the basic infrastructure to improve standards is now in place. Statements of key principles and codes of conduct have been adopted by most public bodies, new regulators have been created or had their existing remits clarified, and awareness of principles such as integrity, accountability and openness has increased considerably. The Committee believes standards of behaviour in many areas of public life have improved. But the Committee finds it disturbing that concerns continue to be raised about the integrity of so many of the country's key institutions or those within them; and the evidence of the last few years and months suggests that there is still much to do before the high standards in public life to which we all aspire are fully internalised in the cultures of all our public institutions. The report concludes that the need now is not for more principles, codes or regulators but rather for the existing arrangements to be more consistently and actively implemented.

Maladministration and Its Remedies

In January 2009, the then Master of the Rolls, Sir Anthony Clarke, appointed Lord Justice Jackson to lead a fundamental review of the rules and principles governing the costs of civil litigation. This report intends to establish how the costs rules operate and how they impact on the behavior of both parties and lawyers.

Judicial Review of Administrative Action

Freedom Under the Law

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Intro

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Dock

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Example

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