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**The ITU and Managing Satellite Orbital and Spectrum Resources in the 21st Century** Springer Science & Business Access to satellite orbits and spectrum is managed by the ITU, a United Nations body that strives to extend the benefits of new technologies to the world, while ensuring equitable access to these resources. This book explores how the ITU approaches these dual missions in light of the increasing saturation of the geostationary orbit by a vibrant global satellite industry and the rising interests of developing countries in accessing these limited resources. These issues were the subject of debate at the 2012 World Radiocommunication Conference. This book describes and assesses various regulatory approaches undertaken to manage the increasing requests for access to space and especially access to spectrum and orbital locations in the geosynchronous or “The Clarke” orbit.

**The Space Law Review Legal Aspects Around Satellite Constellations** Springer This book is based on an initiative made by the European Space Policy Institute, the European Centre for Space Law and the German Aerospace Center. Students and young professionals worldwide were invited to submit a paper on this topic analyzing and discussing relevant aspects on either environment, economy, security, licencing, or control. The best papers have been included in this volume. **Small Satellites Regulatory Challenges and Chances** BRILL *Small Satellites - Regulatory Challenges and Chances* edited by Irmgard Marboe addresses the booming phenomenon of small satellites. It shows the importance of existing rules and regulations to ensure the safe and responsible use of outer space by universities, start-ups and governments. **Managing Internet-Driven Change in International Telecommunications** Artech House This unique new resource offers you a detailed road map for tracking developments and trends in both international telecommunications and Internet-mediated communications. Useful to novices and higher-level professionals alike, the book explores the impact of the Internet on international telecommunications and gives you a clear definition of technological and marketplace convergence. By providing answers and perspective for both telecommunications and information technology professionals, the book bridges the gap between these two disciplines, making it easier to respond to and profit from change occasioned by the Internet. **Promoting Productive Cooperation Between Space Lawyers and Engineers** IGI Global A major non-technical challenge of space activities is ensuring productive cooperation, communication, and understanding between the engineers who design the mission and the space lawyers who cover its relevant legal aspects. Though both groups usually attain some level of understanding, it is only achieved after many years of experience in the space industry and through repeated contact with topics relevant to their projects. A basic understanding of the most important legal and technical aspects acquired earlier in their careers can facilitate better cooperation and more efficient development of space projects. *Promoting Productive Cooperation Between Space Lawyers and Engineers* is a pivotal reference source that provides vital insights into basic legal and technical topics and challenges that occur while planning and conducting typical space activities. The book uses high-profile space missions as examples and highlights the major technical aspects of these missions and the legal issues applied to these missions. While highlighting topics such as planetary settlements, policy perspectives, and suborbital spaceflight, this publication is ideally designed for lawyers, engineers, academicians, students, and professionals. **Deep Space Commodities Exploration, Production and Trading** Springer Welcome to the new space economy... Space is open for business! The dawn of a new space race led by private sector entrepreneurs is upon us thanks to the USA Space Act 2015 and technology advances like SpaceX rockets, which have greatly reduced the cost of space flight. For the first time in history, the advances in both technical and legal infrastructure have opened up exciting opportunities that are already driving the commercial exploration of deep space commodities, Space tourism with Virgin Galactic, and the serious planning for the colonisation of our Moon and Mars. Tom James, a leading commodity and energy market practitioner and author, has brought together top professionals in academia, astropolitics, space engineering, and space law to explore the exciting opportunities and challenges businesses face in the new off-planet economy. With quadrillions of dollars of mineral wealth and frozen water within our reach, the stakes may be high, but so are the rewards. So pack your bags, fasten your oxygen mask and let's get ready to boldly take business where business has not gone before... **The United Nations: 75 Years of Promoting Peace, Human Rights, and Development** ABC-CLIO This key resource for anyone interested in the United Nations, global issues, or world politics provides accessible and comprehensive coverage of the history, growth, and development of ideas and institutions governing the globe. The United Nations has been an essential actor in world politics for 75 years. Its entities have eliminated smallpox, protected the ozone layer, promoted arms control, and helped to save the lives of over 90 million children. Yet, it is frequently criticized as ineffective and antiquated. This book provides a balanced and systematic overview of the UN's contributions and challenges, highlighting areas where it plays an essential role in global governance as well as areas of redundancy and needed reform. This book provides readers with a clear, well-organized reference resource to the entire UN system—its principal organs, specialized agencies, programs and funds, and key issues of engagement. Through individual entries, it examines the history of UN engagement, ranging from peace and security to migration and climate change. It moves beyond a simple description of UN entities as it assesses the development of ideas (such as that of sustainable development), as well as responses to changes in world politics. Finally, it presents both the significant successes of UN work and continued challenges. Meticulously researched, accessible entries written by two prominent UN scholars Entries on both successes and continued challenges of the UN system **Primary source documents key to the founding of the UN Radio Spectrum Management Policies, Regulations and Techniques** John Wiley & Sons This book presents the fundamentals of wireless communications and services, explaining in detail what RF spectrum management is, why it is important, which are the authorities regulating the use of spectrum, and how is it managed and enforced at the international, regional and national levels. The book offers insights to the engineering, regulatory, economic, legal, management policy-making aspects involved. Real-world case studies are presented to depict the various approaches in different countries, and valuable lessons are drawn. The topics are addressed by engineers, advocates and economists employed by national and international spectrum regulators. The book is a tool that will allow the international regional and national regulators to better manage the RF spectrum, and will help operators and suppliers of wireless communications to better understand their regulators. **Regulating Telecommunications in the EU and China What Lessons to be Learned?** LIT Verlag Münster Chinese as well as European regulatory decisions need to consider regional particularities but insist on an implementation system that never loses sight of its goal. In the area of electronic communications policy, this goal is the establishment of a market environment that ensures innovation, high quality and affordable prices. The present survey aims at improving the process of knowledge exchange between European and Chinese experts and decision-makers in Information Society law and policy. The EU-China Information Society Project asked the authors to assess both the EU's and the Chinese status quo, and to bring together both perspectives together in a joint effort to learn from the EU experiences for the Chinese decision-making process today. **Space Law** Routledge The opening of space to exploration and use has had profound effects on society. Remote sensing by satellite has improved meteorology, land use and the monitoring of the environment. Satellite television immediately informs us visually of events in formerly remote locations, as well as providing many entertainment channels. World telecommunication facilities have been revolutionised. Global positioning has improved transport. This book examines the varied elements of public law that lie behind and regulate the use of space. It also makes suggestions for the development and improvement of the law, particularly as private enterprise plays an increasing role in space. **Handbook on Space Research Communication** United Nations This Handbook is concerned principally with those aspects of the space research service that are relevant to the management of radio spectrum usage in order to minimize interference between radio communication services when the space research service is involved. **Space The Frontiers of Modern Defence** KnowledgeWorld . **Yearbook on Space Policy 2014 The Governance of Space** Springer The Yearbook on Space Policy, edited by the European Space Policy Institute (ESPI), is the reference publication analysing space policy developments. Each year it presents issues and trends in space policy and the space sector as a whole. Its scope is global and its perspective is European. The Yearbook also links space policy with other policy areas. It highlights specific events and issues, and provides useful insights, data and information on space activities. The first part of the Yearbook sets out a comprehensive overview of the economic, political, technological and institutional trends that have affected space activities. The second part of the Yearbook offers a more analytical perspective on the yearly ESPI theme and consists of external contributions written by professionals with diverse backgrounds and areas of expertise. The third part of the Yearbook carries forward the character of the Yearbook as an archive of space activities. The Yearbook is designed for government decision-makers and agencies, industry professionals, as well as the service sectors, researchers and scientists and the interested public. **Routledge Handbook of Space Law** Taylor & Francis This handbook is a reference work providing a comprehensive, objective and comparative overview of Space Law. The global space economy reached \$330 billion in 2015, with a growth rate of 9 per cent vis-à-vis the previous year. Consequently, Space Law is changing and expanding expeditiously, especially at the national level. More laws and regulations are being adopted by space-faring nations, while more countries are adapting their Space Laws and regulations related to activities in outer space. More regulatory bodies are being created, while more regulatory diversity (from public law to private law) is being instituted as increasing and innovative activities are undertaken by private entities which employ new technologies and business initiatives. At the international level, Space Law (both hard law and soft law) is expanding in certain areas, especially in satellite broadcasting and telecommunications. The Routledge Handbook of Space Law summarises the existing state of knowledge on a comprehensive range of topics and aspires to set the future international research agenda by indicating gaps and inconsistencies in the existing law and highlighting emerging legal issues. Unlike other books on the subject, it addresses major international and national legal aspects of particular space activities and issues, rather than providing commentary on or explanations about a particular Space Law treaty or national regulation. Drawing together contributions from leading academic scholars and practicing lawyers from around the world, the volume is divided into five key parts: • Part I: General Principles of International Space Law • Part II: International Law of Space Applications • Part III: National Regulation of Space Activities • Part IV: National Regulation of Navigational Satellite Systems • Part V: Commercial Aspects of Space Law This handbook is both practical and theoretical in scope, and may serve as a reference tool to academics, professionals and policy-makers with an interest in Space Law. **Risk Management in Outer Space Activities** Springer Nature Risk Management in Outer Space Activities assesses selected risks associated with space activities, from an Australian and New Zealand perspective. The book explores the rise of commercial space activities and considers the

development of Australia and New Zealand's regulatory frameworks, and how they are equipped to address new and emerging risks in the space sector. The book examines the juxtaposition of international space law against the domestic legal regimes of Australia and New Zealand, and how these regulatory frameworks are designed to create governance mechanisms to control space risk. Both national jurisdictions approach space risk from the perspective of liability and international legal obligations, but as a result of their different historical space trajectories, their risk approaches differ. This is illustrated by research that suggests that from an Australian point of view, much of its space industry development has been influenced by Cold War era military and national security concerns. On the other hand, the New Zealand perspective is grounded on the rapid market-led commercial development that is currently underway in the country. The book examines a variety of risks that can and do emerge in the course of undertaking space activities. It does this by presenting a series of space risk case studies. There are chapters devoted to examining commercial space risks, space insurance, the risks posed by space debris, cybersecurity and space assets, light pollution as a risk for astronomy and the risks inherent in landing objects on the Moon. The work contained in this book is intended to provide a clear, practical and informed approach to understanding risk management in outer space activities. It will appeal to policy makers, risk professionals, space lawyers, national space agencies as well as academics, researchers and students. **A Research Agenda for Space Policy** Edward Elgar Publishing Space policy is now a top priority in international relations. This timely Research Agenda takes the definition of space policy itself as an object of analysis rather than as an unquestioned premise. It presents the multi-faceted spectrum of elements combined within space policy which are crucially relevant to security, welfare and modern society. Expert international contributors set out a forward-looking research agenda for the 2020s, identifying key problems and conflicts related to the topic and exploring policy, regulatory approaches and diplomatic mechanisms to reach possible solutions. **Planetary Defense Global Collaboration for Defending Earth from Asteroids and Comets** Springer Planetary defense from near-Earth objects such as asteroids is a far more nuanced and challenging topic than it might seem. Each day, technology is making it easier to detect asteroid impact threats in advance, but at present, there is still no easy way to design and implement any form of global defense. This book examines how various asteroid deflection methods can change global political affairs. The authors believe that the final policy for potential Earth impacts should be based on practical engineering solutions and innovative architectural structures, while at the same time reflecting the most recent political science contributions in ethical security studies and security cosmopolitanism. Their focus is not limited to effective engineering solutions, but rather extends to how such proposals resonate in possible political structures of the future. Planetary defense cannot be achieved with technology alone; the chapters in this volume highlight the issues that arise when space science and technology intersect with political science. This complex interdisciplinary project not only demands global participation and collaboration, but also proposes the way we can achieve it. The authors explore various concepts of governance and their far-reaching implications for planetary defense and vice versa—how scientific progress in Solar System observations and asteroid collision engineering influence political science and put pressure on the international legal framework. The text is intentionally written for a diverse scholarly and diplomatic audience in a style accessible to non-specialists and practitioners and can be read by those across diverse disciplinary backgrounds. **Global Communication Theories, Stakeholders, and Trends** John Wiley & Sons Global Communication is the most definitive text on multi-national communication and media conglomerates, exploring how global media, particularly CNN, the BBC, Euronews, and Al Jazeera, influence audiences and policy makers alike. Includes four completely new chapters on Asian media, Euromedia, the Middle East, and public diplomacy from a post 9/11 perspective Updates the story of Arab media with a section on "Arab Media and the Al Jazeera Effect" by Middle East-based expert Lawrence Pintak Covers the global war on terrorism and the substantial US investment in Iraqi media Provides updated accounts and overviews of the largest and most important media corporations from around the world, from MTV and CNN to Bollywood Incorporates discussions of Hulu, YouTube, Myspace, and the Twitter phenomenon as well as new stakeholders in global online media **Telecommunications and Data Communications Handbook** John Wiley & Sons For an accessible and comprehensive survey of telecommunications and data communications technologies and services, consult the Telecommunications and Data Communications Handbook, which includes information on origins, evolution and meaningful contemporary applications. Find discussions of technologies set in context, with details on fiber optics, cellular radio, digital carrier systems, TCP/IP, and the Internet. Explore topics like Voice over Internet Protocol (VoIP); 802.16 & WiMAX; Passive Optical Network (PON); 802.11g & Multiple Input Multiple Output (MIMO) in this easily accessible guide without the burden of technical jargon. **Exclusive Use in an Inclusive Environment The Meaning of the Non-Appropriation Principle for Space Resource Exploitation** Springer This book aims to find a workable interpretation of the non-appropriation principle that is compatible with both the existing international space law framework and the move of the private space industry towards the mining of asteroids and other celestial bodies. It does so by analysing the rules on the use of orbits as limited natural resources as a concrete indication of how space resources can be exploited by one user while respecting the non-appropriation principle and the interests of other users in space. This analysis is complemented by a thorough review of the meaning of property rights in the context of the existing international space law regime. This allows the author to distinguish between the lawful exploitation and unlawful appropriation of resources in a manner that could pave the way for a workable asteroid mining regime that takes into account the needs of individual companies and the international community. Exclusive use in an inclusive environment frames the legal regime of the exploitation of natural resources in outer space as the most pressing example to date of the tension that arises between the rights of a single spacefaring actor and the interests of the broader international community. Though academic in its approach in dealing with one of the most fundamental issues of space law to date, the book has very practical ambitions. By offering a pragmatic interpretation of the space law principles that are likely to remain the legal foundations of asteroid mining for the foreseeable future, Exclusive use in an inclusive environment hopes to inform academics, practitioners and policymakers alike in their future attempts at working out a fair, equitable and effective management regime for the exploitation of natural resources in outer space. **Governing Global Electronic Networks International Perspectives on Policy and Power** MIT Press Experts analyze the global governance of electronic networks, emphasizing international power dynamics and the concerns of nondominant actors. The burgeoning use and transformative impact of global electronic networks are widely recognized to be defining features of contemporary world affairs. Less often noted has been the increasing importance of global governance arrangements in managing the many issues raised in such networks. This volume helps fill the gap by assessing some of the key international institutions pertaining to global telecommunications regulation and standardization, radio frequency spectrum, satellite systems, trade in services, electronic commerce, intellectual property, traditional mass media and Internet content, Internet names and numbers, cybercrime, privacy protection, and development. Eschewing technocratic approaches, the contributors offer empirically rich studies of the international power dynamics shaping these institutions. They devote particular attention to the roles and concerns of nondominant stakeholders, such as developing countries and civil society, and find that global governance often reinforces wider power disparities between and within nation-states. But at the same time, the contributors note, governance arrangements often provide nondominant stakeholders with the policy space needed to advance their interests more effectively. Each chapter concludes with a set of policy recommendations for the promotion of an open, dynamic, and more equitable network order. Contributors Peng Hwa Ang, Jonathan D. Aronson, Byung-il Choi, Tracy Cohen, Peter F. Cowhey, William J. Drake, Henry Farrell, Rob Frieden, Alison Gillwald, Boutheina Guermazi, Cees J. Hamelink, Ian Hosein, Wolfgang Kleinwachter, Don MacLean, Christopher May, Milton Mueller, John Richards, David Souter, Ernest Wilson III, Jisuk Woo **Radio Spectrum Management Management of the Spectrum and Regulation of Radio Services** IET A review of the administrative, regulatory and technical measures applied to the main radio services today. Will include general principles of national spectrum management, management methods applicable to the fixed service below 30 MHz, HF broadcasting, broadcasting at LF/MF, VHF and UHF, the fixed service above 30 MHz, maritime and land mobile services, satellite broadcasting and the fixed satellite service. **Radiofrequency Use and Management Impacts from the World Administrative Radio Conference of 1979 Global Space Governance: An International Study** Springer This book is based on the findings, conclusions and recommendations of the Global Space Governance study commissioned by the 2014 Montreal Declaration that called upon civil society, academics, governments, the private sector, and other stakeholders to undertake an international interdisciplinary study. The study took three years to complete. It examines the drivers of space regulations and standards, key regulatory problems, and especially addresses possible improvements in global space governance. The world's leading experts led the drafting of chapters, with input from academics and knowledgeable professionals in the public and private sectors, intergovernmental organizations, and nongovernmental organizations from all the regions of the world with over 80 total participants. This book and areas identified for priority action are to be presented to the UN Committee on the Peaceful Uses of Outer Space and it is hoped will be considered directly or indirectly at the UNISPACE+50 event in Vienna, Austria, in 2018. The report, a collective work of all the contributors, includes objective analysis and frank statements expressed without pressure of political, national, and occupational concerns or interest. It is peer-reviewed and carefully edited to ensure its accuracy, preciseness, and readability. It is expected that the study and derivative recommendations will form the basis for deliberations and decisions at international conferences and meetings around the world on the theme of global space governance. This will hopefully include future discussion at the UN Committee on the Peaceful Uses of Outer Space. **The Geostationary Ring Practice and Law** BRILL The Geostationary Ring: Practice and Law by Martha Mejía-Kaiser addresses numerous physical aspects of this highly sought-after orbital region and analyses in unprecedented detail the evolution of its use, coordination and related disputes and efforts to keep it operational by clearing it of space debris. **The Space Treaties at Crossroads Considerations de Lege Ferenda** Springer This contributed volume addresses the future development of space law in light of our ever-growing space activities, the multiplicity of new space actors and the challenges posed by novel space technologies. Unlike existing space law literature, it sets its sights on the future, envisaging how space law could and should evolve in coming decades. Written by experienced professors, academics and practitioners in the field, this edited volume constitutes a valuable tool for understanding the current state of space law, the challenges it is called upon to address and the new phase it is about to enter. In addition, this book initiates a discussion de lege ferenda, addressing the letter and spirit of space law in the world of modern and future space activities. These papers were presented at "The Space Treaties at Crossroads: Considerations de lege ferenda," held on August 28 to 29, 2015, in Athens, Greece. The conference was jointly organized by the National and Kapodistrian University of Athens and the Institute of Air and Space Law of McGill University **The Discipline of Organizing: Professional Edition** "O'Reilly Media, Inc." Note about this ebook: This ebook exploits many advanced capabilities with images, hypertext, and interactivity and is optimized for EPUB3-compliant book readers, especially Apple's iBooks and browser plugins. These features may not work on all ebook readers. We organize things. We organize information, information about things, and information about information. Organizing is a fundamental issue in many professional fields, but these fields have only limited agreement in how they approach problems of organizing and in what they seek as their solutions. The Discipline of Organizing synthesizes insights from library science, information science, computer science, cognitive science, systems analysis, business, and other disciplines to create an Organizing System for understanding organizing. This framework is robust and forward-looking, enabling effective sharing of insights and design patterns between disciplines that weren't possible before. The Professional Edition includes new and revised content about the active resources of the "Internet of Things," and how the field of Information Architecture can be viewed as a subset of the discipline of organizing. You'll find: 600 tagged endnotes that connect to one or more of the contributing disciplines Nearly 60 new pictures and illustrations Links to cross-references and external citations Interactive study guides to test on key points The Professional Edition is ideal for practitioners and as a primary or supplemental text for graduate courses on information organization, content and knowledge management, and digital collections. FOR INSTRUCTORS: Supplemental materials (lecture notes, assignments, exams, etc.) are available at <http://disciplineoforganizing.org>. FOR STUDENTS: Make sure this is the edition you want to buy. There's a newer one and maybe your instructor has adopted that one instead. **Handbook on National Spectrum Management 2015** United Nations This Handbook describes the key elements of spectrum management: spectrum management fundamentals, spectrum planning, frequency assignment and licensing, spectrum monitoring, spectrum inspection and investigation, spectrum engineering, spectrum economics, automation of spectrum management activities and measures of spectrum utilization and spectrum utilization efficiency. **The Exploitation of Natural Resources of the Moon and Other Celestial Bodies A Proposal for a Legal Regime** Martinus Nijhoff Publishers The purpose of this book is to propose a legal regime to govern the exploitation of natural resources of the moon and other celestial bodies. Considering, on the one side, the interest shown by states and private operators to extract and use extraterrestrial natural resources and, on the other, the absence of specific rules dealing with such an option, the establishment of a legal framework to regulate the exploitation of natural resources of the moon and other celestial bodies is needed so as to ensure its peaceful, safe and orderly development. **The New Gold Rush The Riches of Space Beckon!** Springer This book captures the most exciting advances in the harnessing of space as a global resource. The authors track the growing number of space businesses and opportunities for investors, and the many possible benefits of spaceplanes, space stations and even space colonies. The authors also discuss the need for more regulatory reform. Companies like Planetary Resources are now forming to find mineral-rich asteroids and bring back new riches to Earth. Solar power satellites in the next few years will start to beam clean energy back to Earth, to meet the growing demands of a still-developing world.

Innovative space industries are vital to the survival of modern human life, and the authors demonstrate what can be done to encourage the growing of the "New Space" frontier. From lassoing and then mining asteroids to developing new methods of defending the planet from space hazards and setting up new hotels and adventures for tourists in space, this new industry will have profound effects on Earth, especially on its economy. This book is based on a study of international experts commissioned ahead of the UNISPACE+50 meeting, having distilled the results of this comprehensive fact-finding process into a compact and very readable form. It can serve as an excellent starting point for understanding all the activities underway or planned to make space truly our next frontier. **Handbook of Satellite Applications Spectrum Wars: The Rise of 5G and Beyond** Artech House This exciting new book, which builds on the author's previous book, *Spectrum Wars: The Policy and Technology Debate*, discusses the evolution of spectrum use and management caused by the rise of 5G and beyond in all wireless technologies, from terrestrial wireless, including mobile and fixed, to non-terrestrial including satellite and drone technologies. A survey of these new technologies and use cases are included, allowing the reader to understand the technical, operational, and commercial context of these systems. This book addresses how the traditional methods used in evaluating spectrum management have changed, including the use and need of low, medium, and high band spectrum to meet user demands and the use of tools such as spectrum sharing to make available much needed spectrum for 5G and beyond. The book also examines how governments are making additional spectrum available for all uses, including recent spectrum auctions, clearing, and shared networks. Public policy challenges, such as the digital divide and the impact of the pandemic, are explored in relation to their impact on spectrum management. Finally, the evolution to 6G that is already occurring, and the impact that 6G will likely have on spectrum management in the future, is reviewed. Written by an expert in the field, this book provides a thoughtful approach to the overall spectrum management regime from allocating spectrum to having it released into the market for 5G and beyond. **War and Peace in Outer Space Law, Policy, and Ethics** Oxford University Press, USA "Historically, strategic restraint was the dominant approach among nations active in outer space, all of whom understood that continued access to and use of space required holding back on threats or activities which might jeopardize the status quo of peace in space. However, recently there has been a discernible shift in international rhetoric towards a more offensive approach to defense in space. The U.S. move towards establishing a "Space Force" has been echoed by similar announcements in France and Japan. India launched an anti-satellite weapon test and announced proudly that it thereby joined the elite group of China, Russia and the U.S., who have all demonstrated this capability in the past. And as technologies in space advance, along with our terrestrial dependence on space-based systems for our peaceful civilian lives and for support of terrestrial warfare, the political stability of this vulnerable environment comes under threat. These factors, combined with a lack of transparency about actual capabilities and intentions on the part of all major players in space, creates a cyclical escalation which has led some commentators to describe this as a return to a Cold War-type arms race, and to the foreseeability of a space-based conflict. Due to many unique characteristics of the space domain, an armed conflict in space would be catastrophic for all players, including neutral States, commercial actors, and international civil society. Due to the specificity of the space domain, specialized expertise must be provided to decision-makers, and interdisciplinary opinions must be sought from a multitude of stakeholders. To that end, this volume provides a wide spectrum of perspectives from experts who have engaged together at a conference hosted by the Center for Ethics in the Rule of Law to discuss these issues. Ethical, legal and policy solutions are offered here by those with experience in the space sector, including academia, legal practitioners, military lawyers and operators, diplomats and policy advisors"-- **Legal Visions of the 21st Century Essays in Honour of Judge Christopher Weeramantry** Martinus Nijhoff Publishers - Wouter de Vos. **Disaster Management and International Space Law** BRILL In *Disaster Management and International Space Law* Diego Zannoni offers a systematic analysis of the main legal issues involved in both preventive measures regarding disasters and their relief phase, with a special focus on major space applications. **EBOOK: Mobile and Wireless Communications: An Introduction** McGraw-Hill Education (UK) The mobile information society has revolutionised the way we work, communicate and socialise. Mobile phones, wireless free communication and associated technologies such as WANS, LANs, and PANs, cellular networks, SMS, 3G, Bluetooth, Blackberry and WiFi are seen as the driving force of the advanced society. The roots of today's explosion in wireless technology can be traced back to the deregulation of AT&T in the US and the Post Office and British Telecom in the UK, as well as Nokia's groundbreaking approach to the design and marketing of the mobile phone. Providing a succinct introduction to the field of mobile and wireless communications, this book: Begins with the basics of radio technology and offers an overview of key scientific terms and concepts for the student reader Addresses the social and economic implications of mobile and wireless technologies, such as the effects of the deregulation of telephone systems Uses a range of case studies and examples of mobile and wireless communication, legislation and practices from the UK, US, Canada, mainland Europe, the Far East and Australia Contains illustrations and tables to help explain technical concepts and show the growth and change in mobile technologies Features a glossary of technical terms, annotated further reading at the end of each chapter and web links for further study and research *Mobile and Wireless Communications* is a key resource for students on a range of social scientific courses, including media and communications, sociology, public policy, and management studies, as well as a useful introduction to the field for researchers and general readers. **Introduction to Satellite Communication** Artech House The book covers all the fundamentals of satellites, ground control systems, and earth stations, considering the design and operation of each major segment. You gain a practical understanding of the basic construction and usage of commercial satellite networksOHow parts of a satellite system function, how various components interact, which role each component plays, and which factors are the most critical to success." **Satellite Communications Systems Systems, Techniques and Technology** John Wiley & Sons The revised and updated sixth edition of *Satellite Communications Systems* contains information on the most recent advances related to satellite communications systems, technologies, network architectures and new requirements of services and applications. The authors - noted experts on the topic - cover the state-of-the-art satellite communication systems and technologies and examine the relevant topics concerning communication and network technologies, concepts, techniques and algorithms. New to this edition is information on internetworking with the broadband satellite systems, more intensive coverage of Ka band technologies, GEO high throughput satellite (HTS), LEO constellations and the potential to support the current new broadband Internet services as well as future developments for global information infrastructure. The authors offer details on digital communication systems and broadband networks in order to provide high-level researchers and professional engineers an authoritative reference. In addition, the book is designed in a user-friendly format. **Satellite Systems for Personal Applications Concepts and Technology** John Wiley & Sons Presents the concepts, technology, and role of satellite systems in support of personal applications, such as mobile and broadband communications, navigation, television, radio and multimedia broadcasting, safety of life services, etc. This book presents a novel perspective on satellite systems, reflecting the modern personal technology context, and hence a focus on the individual as end-user. The book begins by outlining key generic concepts before discussing techniques adopted in particular application areas; next, it exemplifies these techniques through discussion of state-of-art current and emerging satellite systems. The book concludes by contemplating the likely evolution of these systems, taking into consideration influences and trends in technology, in conjunction with growing user expectations. In addition to addressing satellite systems that directly interact with personal devices, the book additionally considers those indirect applications where there is an increasing interest by individuals - notably, in remote sensing. As such, the book uniquely encompasses the entire gamut of satellite-enabled personal / end-user applications. Key Features: Broad scope - views satellite systems generically with regards to their applicability across a wide range of personal application areas Strong foundation in underlying concepts State-of-the-art system examples Review of trends in relevant areas of satellite technology Revision questions at the end of each chapter The book is suited to individuals, engineers, scientists, service providers, system operators, application developers and managers interested or involved in the use of satellite technology for personal applications. It should also hold interest for use in research institutes interested in promoting inter-disciplinary cross-fertilization of ideas, as well as by financiers, policy makers, and strategists interested in gaining a better understanding of this technology.