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### KEY=INNO2 - ANTON ELLISON

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**Using ArcGIS Geostatistical Analyst GIS by ESRI** [Esri Press](#) **Climate Change and Air Pollution The Impact on Human Health in Developed and Developing Countries** [Springer](#) *This book discusses regional and international climate-change, air-pollution and human-health scenarios. The research, from both industrialized and developing countries, focuses on region-specific perspectives of climate change impacts on air pollution. After analyzing the variations of climate data over recent decades, the authors consider the different effects of climate change on air pollution and health. As stressed by the IPCC, "pollen, smoke and ozone levels are likely to increase in a warming world, affecting the health of residents of major cities. Rising temperatures will worsen air quality through a combination of more ozone in cities, bigger wild fires and worse pollen outbreaks," according to a major UN climate report. The report follows the World Health Organization in finding that air pollution is the world's greatest environmental health risk, killing 7 million people in 2014 (compared to 0.4 million deaths due to malaria). Deteriorating air quality will most affect the elderly, children, people with chronic ill-health and expectant mothers. Another report suggests that more than 5.5 million people die prematurely each year due to air pollution with over half of those deaths occurring in China and India. A study on the air pollution in the USA, suggests that more than half of US population lives in areas with potentially dangerous air pollution, and about six out of 10 of the top cities for air pollution in the USA are located in the state of California. In the face of future climate change, scientists have urged stronger emission controls to avoid worsening air pollution and the associated exacerbation of health problems, especially in more populated regions of the world. It is hoped that the implementation of the Paris Climate Agreement will help minimize air pollution. Additionally the authors consider the various measures that different countries and groups of countries, like the European Union, have adopted to mitigate the problems arising from climate change and to safeguard the health of population. The book examines the increasing incidence of diseases largely caused by climate change. The countries/regions covered in this study include the USA, Northern Europe (U.K.), Southern Europe (Italy), Canada, Australia, East Asia, Russia, Hong Kong, Taiwan, Thailand, Malaysia, Indonesia, India, South Africa, Mexico, Brazil, Caribbean countries, and Argentina.* **Solving General Chemistry Problems** [W.H. Freeman & Company](#) **Nutrition Support for Athletic Performance** [MDPI](#) *Athletes and their support personnel are constantly seeking evidence-informed recommendations to enhance athletic performance during competition and to optimize training-induced adaptations. Accordingly, nutritional and supplementation strategies are commonplace when seeking to achieve these aims, with such practices being implemented before, during, or after competition and/or training in a periodized manner. Performance nutrition is becoming increasingly specialized and needs to consider the diversity of athletes and the nature of the competitions. This Special Issue, Nutrition Support for Athletic Performance, describes recent advances in these areas.* **Methods of Air Sampling and Analysis** [Routledge](#) *Includes precise directions for a long list of contaminants! All contaminants you can analyze or monitor with a given method are consolidated together to facilitate use. This book is especially valuable for indoor and outdoor air pollution control, industrial hygiene, occupational health, analytical chemists, engineers, health physicists, biologists, toxicologists, and instrument users.* **Algal Technologies for Wastewater Treatment and Resource Recovery** [IWA Publishing](#) *Over 80% of globally produced wastewater receives little or no treatment before it is disposed into the environment. Therefore, it is urgent to develop new wastewater treatment technologies that are sustainable in the broad sense of the word, i.e. not only produce high quality effluents, but also minimise energy expenses, recover energy and nutrients, and apply technology that is appropriate in relation to the availability of skilled personnel. This book compiles the main outcomes of recent efforts to improve the design of waste stabilisation ponds, and confirms the superior performance of high rate algal ponds as a result of process intensification. Anaerobic digestion devoted to biogas production continues to be the preferred strategy for the energy valorisation of the algal biomass, co-digestion with multiple high C/N ratio substrates gathering significant attention over the past years. The potential of algal biomass as a biosorbent for heavy metal removal (Cu, Ni, F) maintains its share in the research field of water bioremediation, while research on nutrient removal has focused on providing new insights on the mechanism of nitrogen and phosphorus removal from wastewater in algal-bacterial systems. Finally, it is worth noticing that breakthroughs in complementary fields of research such as nanotechnology or lighting technology are gradually being implemented in algal biotechnology, with new products such as nanoparticles for water disinfection or photobioreactors illuminated by low intensity LED panels. In Focus - a book series that showcases the latest accomplishments in water research. Each book focuses on a specialist area with papers from top experts in the field. It aims to be a vehicle for in-depth understanding and inspire further conversations in the sector.* **Smart and Multifunctional Concrete Toward Sustainable Infrastructures** [Springer](#) *This book presents the latest research advances and findings in the field of smart/multifunctional concretes, focusing on the principles, design and fabrication, test and characterization, performance and mechanism, and their applications in infrastructures. It also discusses future challenges in the development and application of smart/multifunctional concretes, providing useful theory, ideas and principles, as well as insights and practical guidance for developing sustainable infrastructures. It is a valuable resource for researchers, scientists and engineers in the field of civil-engineering materials and infrastructures.* **Process Calculations** [PHI Learning Pvt. Ltd.](#) **ArcGIS 9 Using ArcGIS spatial analyst** [Esri Press](#) *This book is an excellent reference for users of ESRI ArcGIS Spatial Analyst, one of the extensions to the ArcGIS Desktop products ArcInfo, ArcEditor, and ArcView. ArcGIS Spatial Analyst lets ArcGIS Desktop users create, query, and analyze cell-based raster maps; derive new information from existing data; query information across multiple data layers; and fully integrate cell-based raster data with traditional vector data sources. ArcGIS Spatial Analyst helps you answer questions such as How steep is it in a certain location? or What is the least-cost path from point A to point B? Begin with the quick-start tutorial for an overview of performing spatial analysis using the functions of ArcGIS Spatial Analyst. If you prefer, jump right in and experiment on your own. The book also includes concise, step-by-step, fully illustrated examples.* **Indoor Air Reference Bibliography Chemistry The Central Science** *NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value; this format costs significantly less than a new textbook. Before purchasing, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of MyLab(tm) and Mastering(tm) platforms exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a Course ID, provided by your instructor, to register for and use MyLab and Mastering products. For courses in two-semester general chemistry. Accurate, data-driven authorship with expanded interactivity leads to greater student engagement Unrivaled problem sets, notable scientific accuracy and currency, and remarkable clarity have made Chemistry: The Central Science the leading general chemistry text for more than a decade. Trusted, innovative, and calibrated, the text increases conceptual understanding and leads to greater student success in general chemistry by building on the expertise of the dynamic author team of leading researchers and award-winning teachers. In this new edition, the author team draws on the wealth of student data in Mastering(tm) Chemistry to identify where students struggle and strives to perfect the clarity and effectiveness of the text, the art, and the exercises while addressing student misconceptions and encouraging thinking about the practical, real-world use of chemistry. New levels of student interactivity and engagement are made possible through the enhanced eText 2.0 and Mastering Chemistry, providing seamlessly integrated videos and personalized learning throughout the course. Also available with Mastering Chemistry Mastering(tm) Chemistry is the leading online homework, tutorial, and engagement system, designed to improve results by engaging students with vetted content. The enhanced eText 2.0 and Mastering Chemistry work with the book to provide seamless and tightly integrated videos and other rich media and assessment throughout the course. Instructors can assign interactive media before class to engage students and ensure they arrive ready to learn. Students further master concepts through book-specific Mastering Chemistry assignments, which provide hints and answer-specific feedback that build problem-solving skills. With Learning Catalytics(tm) instructors can expand on key concepts and encourage student engagement during lecture through questions answered individually or in pairs and groups. Mastering Chemistry now provides students with the new General Chemistry Primer for remediation of chemistry and math skills needed in the general chemistry course. If you would like to purchase both the loose-leaf version of the text and MyLab and Mastering, search for: 0134557328 / 9780134557328 Chemistry: The Central Science, Books a la Carte Plus Mastering Chemistry with Pearson eText -- Access Card Package Package consists of: 0134294165 / 9780134294162 Mastering Chemistry with Pearson eText -- ValuePack Access Card -- for Chemistry: The Central Science 0134555635 / 9780134555638 Chemistry: The Central Science, Books a la Carte Edition* **Product Development Strategy Innovation Capacity and Entrepreneurial Firm Performance in High-Tech SMEs** [Springer](#) *Product Development Strategy provides a concise theoretical and analytical discussion relating to the theory and practice of strategy, innovation capacity, and entrepreneurial performance. The book discusses an innovative perspective which provides a practical insight into the field of product development strategy.* **Marine Structural Design** [Butterworth-Heinemann](#) *Marine Structural Design, Second Edition, is a wide-ranging, practical guide to marine structural analysis and design, describing in detail the application of modern structural engineering principles to marine and offshore structures. Organized in five parts, the book covers basic structural design principles, strength, fatigue and fracture, and reliability and risk assessment, providing all the knowledge needed for limit-state design and re-assessment of existing structures. Updates to this edition include new chapters on structural health monitoring and risk-based decision-making, arctic marine structural development, and the addition of new LNG ship topics, including composite materials and structures, uncertainty analysis, and green ship concepts. Provides the structural design principles, background theory, and know-how needed for marine and offshore structural design by analysis Covers strength, fatigue and fracture, reliability, and risk assessment together in one resource, emphasizing practical considerations and applications Updates to this edition include new chapters on structural health monitoring and risk-based decision making, and new content on arctic marine structural design* **Regions and Economic Resilience** *The term "resilience" originated in environmental studies and describes one's biological capacity to adapt and thrive under adverse environmental conditions. Regional economic resilience is defined as the capacity of a territory's economy to resist and/or recover quickly from external shocks, often even improving on its prior situation (before the shock). The contributions in this book analyse different channels related to processes of mitigation (resistance-recovery) and adaptive resilience (reorientation-renewal), in a wide variety of geographical settings and scales. While the different chapters include relevant methodological advances in this literature, they also obtain relevant results from a policy perspective. Moreover, the wide spectrum of topics and analyses among the contributions in this book extend the current framework, to analyse regional economic resilience, from the intersection of several disciplines involving geographers, economists and demographers, as well as environmental scientists.* **Allostery Methods and Protocols** *This volume explores the basic issues of allostery and network that are fundamental to studying this field. Chapters in this book look at how the basic machine-like proteins, that are similar to human machines, need to be organized, architecturally, to relate to different organizational layers. Chapters cover topics such as methodological/computational factors focused on links between allostery and network formalism; the presence of oscillating modes transversing the structure and underlying network wiring of the allosteric process; the action at distance by*

transduction of signals across an organized network structure; and the P53 protein located at the cross-road of cell cycle regulation, genome integrity, and cancer development. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Thorough and practical, *Allostery: Methods and Protocols* is a valuable resource for any scientists and researcher interested in learning more about this developing field. **Modern Aspects of Bulk Crystal and Thin Film Preparation** [BoD – Books on Demand](#) In modern research and development, materials manufacturing crystal growth is known as a way to solve a wide range of technological tasks in the fabrication of materials with preset properties. This book allows a reader to gain insight into selected aspects of the field, including growth of bulk inorganic crystals, preparation of thin films, low-dimensional structures, crystallization of proteins, and other organic compounds. **Chemistry for the IB Diploma Coursebook with Free Online Material** [Cambridge University Press](#) Chemistry for the IB Diploma, Second edition, covers in full the requirements of the IB syllabus for Chemistry for first examination in 2016. This digital version of Chemistry for the IB Diploma Coursebook, Second edition, comprehensively covers all the knowledge and skills students need during the Chemistry IB Diploma course, for first examination in 2016, in a reflowable format, adapting to any screen size or device. Written by renowned experts in Chemistry teaching, the text is written in an accessible style with international learners in mind. Self-assessment questions allow learners to track their progress, and exam-style questions help learners to prepare thoroughly for their examinations. Answers to all the questions from within the Coursebook are provided. **University Chemistry Physical Chemistry for the Life Sciences** [Macmillan](#) Peter Atkins and Julio de Paula offer a fully integrated approach to the study of physical chemistry and biology. **Power Plant Engineering Introduction to Software for Chemical Engineers, Second Edition** [CRC Press](#) The field of Chemical Engineering and its link to computer science is in constant evolution and new engineers have a variety of tools at their disposal to tackle their everyday problems. *Introduction to Software for Chemical Engineers, Second Edition* provides a quick guide to the use of various computer packages for chemical engineering applications. It covers a range of software applications from Excel and general mathematical packages such as MATLAB and MathCAD to process simulators, CHEMCAD and ASPEN, equation-based modeling languages, gProms, optimization software such as GAMS and AIMS, and specialized software like CFD or DEM codes. The different packages are introduced and applied to solve typical problems in fluid mechanics, heat and mass transfer, mass and energy balances, unit operations, reactor engineering, process and equipment design and control. This new edition offers a wider view of packages including open source software such as R, Python and Julia. It also includes complete examples in ASPEN Plus, adds ANSYS Fluent to CFD codes, Lingo to the optimization packages, and discusses Engineering Equation Solver. It offers a global idea of the capabilities of the software used in the chemical engineering field and provides examples for solving real-world problems. Written by leading experts, this book is a must-have reference for chemical engineers looking to grow in their careers through the use of new and improving computer software. Its user-friendly approach to simulation and optimization as well as its example-based presentation of the software, makes it a perfect teaching tool for both undergraduate and master levels. **Innovations in Classification, Data Science, and Information Systems Proceedings of the 27th Annual Conference of the Gesellschaft für Klassifikation e.V., Brandenburg University of Technology, Cottbus, March 12-14, 2003** [Springer Science & Business Media](#) The volume presents innovations in data analysis and classification and gives an overview of the state of the art in these scientific fields and applications. Areas that receive considerable attention in the book are discrimination and clustering, data analysis and statistics, as well as applications in marketing, finance, and medicine. The reader will find material on recent technical and methodological developments and a large number of applications demonstrating the usefulness of the newly developed techniques. **Advances in Chemical Physics** [John Wiley & Sons](#) The Advances in Chemical Physics series provides the chemical physics field with a forum for critical, authoritative evaluations of advances in every area of the discipline. • This is the only series of volumes available that presents the cutting edge of research in chemical physics • Includes 10 contributions from leading experts in this field of research • Contains a representative cross-section of research in chemical reaction dynamics and state of the art quantum description of intramolecular and intermolecular dynamics • Structured with an editorial framework that makes the book an excellent supplement to an advanced graduate class in physical chemistry, chemical physics, or molecular physics **Federal-aid Policy Guide Atmospheric Ammonia Detecting emission changes and environmental impacts. Results of an Expert Workshop under the Convention on Long-range Transboundary Air Pollution** [Springer Science & Business Media](#) Anthropogenic emissions of ammonia cause a host of environmental impacts, including loss of biodiversity, soil acidification and formation of particulate matter in the atmosphere. Under the auspices of the UNECE Convention on Long Range Transboundary Air Pollution, around 80 international experts met to review the state of scientific knowledge. This book reports their analysis. It concludes that threshold levels for ammonia effects have been underestimated and sets new values, it assesses the independent evidence to verify reported reductions in regional ammonia emissions, and it reviews the uncertainties in modelling ammonia, both in "hot spots" and at the regional scale. **Inorganic Chemistry** This textbook aims to convey the important principles and facts of inorganic chemistry in a way that is both understandable and enjoyable to undergraduates. Examples help to illustrate the material, and key points are summarized at the conclusion of each chapter. **Self-Sensing Concrete in Smart Structures** [Butterworth-Heinemann](#) Concrete is the second most used building material in the world after water. The problem is that over time the material becomes weaker. As a response, researchers and designers are developing self-sensing concrete which not only increases longevity but also the strength of the material. *Self-Sensing Concrete in Smart Structures* provides researchers and designers with a guide to the composition, sensing mechanism, measurement, and sensing properties of self-healing concrete along with their structural applications Provides a systematic discussion of the structure of intrinsic self-sensing concrete Compositions of intrinsic self-sensing concrete and processing of intrinsic self-sensing concrete Explains the sensing mechanism, measurement, and sensing properties of intrinsic self-sensing concrete **Clearer Skies Over China Reconciling Air Quality, Climate, and Economic Goals** [MIT Press](#) A groundbreaking U.S.-Chinese inquiry into the effects of recent air pollution controls and prospective carbon taxes on China's economy and environment. China's carbon dioxide emissions now outstrip those of other countries and its domestic air quality is severely degraded, especially in urban areas. Its sheer size and its growing, fossil-fuel-powered economy mean that China's economic and environmental policy choices will have an outsized effect on the global environmental future. Over the last decade, China has pursued policies that target both fossil fuel use and atmospheric emissions, but these efforts have been substantially overwhelmed by the country's increasing energy demands. With a billion citizens still living on less than \$4,000 per year, China's energy and environmental policies must be reconciled with the goals of maintaining economic growth and raising living standards. This book, a U.S.-Chinese collaboration of experts from Harvard and Tsinghua University, offers a groundbreaking integrated analysis of China's economy, emissions, air quality, public health, and agriculture. It first offers essential scientific context and accessible summaries of the book's policy findings; it then provides the underlying scientific and economic research. These studies suggest that China's recent sulfur controls achieved enormous environmental health benefits at unexpectedly low costs. They also indicate that judicious implementation of carbon taxes could reduce not only China's carbon emissions but also its air pollution more comprehensively than current single-pollutant policies, all at little cost to economic growth. **Analysis of Symbolic Data Exploratory Methods for Extracting Statistical Information from Complex Data** [Springer Science & Business Media](#) This book presents the most recent methods for analyzing and visualizing symbolic data. It generalizes classical methods of exploratory, statistical and graphical data analysis to the case of complex data. Several benchmark examples from National Statistical Offices illustrate the usefulness of the methods. The book contains an extensive bibliography and a subject index. **Medicinal Plants of India (Vol. 1)** [Scientific Publishers](#) The book deals with 200 plants species of Angiosperms. For the first time here is a detailed explanation of 200 herbs in complete Ayurvedic perspective, aided with their botanical description, chemical constituents, Ayurvedic medicinal properties, clinical usage and also ethno-medicinal usage. The plants selected in the present book are fairly widely used in India for millennia. This book will help in generating a global interest in Ayurveda and medicinal plants in India. The author has done a commendable job to compile the useful information of plants, in addition with excellent coloured photograph, which facilitates its identification. Salient features of this Book are: (1) Species of plants are presented in Alphabetical order of their Botanical names. (2) In dealing with each species, after its Botanical name, all available Synonyms are mentioned. (3) This is followed by names popularly used in English and in other Indian languages with its distribution. (4) To help to identify the plant species, the taxonomic description is given. (5) Available information about the chemical constituents of each species is given. (6) Sanskrit Shlokas from relevant Nighantus describing the Ayurvedic Medicinal properties are first given in Devanagary Script followed by its rendering in Roman Script using Internationally recognized transliteration markings. (7) This is followed by giving its action and uses according to Ayurvedic therapeutics. (8) Information about its use in Ethnomedicinal practice is given, then. This book is helpful for Ethnobotanists, Ayurvedic medical practitioner, students and researchers as well as other reader's interested in the field of Ethno-medicine. **The Growth of Single Crystals** [Prentice Hall](#) **Tepaloxymid** "Under the authority of the Pest Control Products Act, Health Canada's Pest Management Regulatory Agency (PMRA) has added a new use on canola to the product label of Equinox EC Herbicide, containing technical grade tepaloxymid. The specific use approved in Canada is detailed on the label of Equinox EC Herbicide, Pest Control Products Act Registration Number 27603."--Document. **Life in Europe Under Climate Change** [John Wiley & Sons](#) Life in Europe will indeed go on as the climate changes, but not in the same way as before. The air will be warmer, winds will change, patterns of rainfall and snowfall will alter, and sea level is likely to rise. These phenomena are already being seen. Europe will in the future experience marked changes in vegetation cover, increased floods along rivers and coastlines as well as more frequent droughts and forest fires, often leading to large societal costs. The changes will be minor in some cases, profound in others, but in any case, pervasive. This book uses the most up to date information issued by the IPCC (Intergovernmental Panel on Climate Change), and informs readers about these effects, as well as showing how Europe is contributing to attempts to slow the tempo of global climate change, and how it can adapt to the climate change that seems unavoidable. *Life in Europe under Climate Change* makes essential information on climate impacts in Europe accessible to a broad audience, including students, politicians, planners and members of non-governmental organizations. **The History of the Mohammedan Dynasties in Spain Extracted from the Nafhu-t-tib Min Ghosni-l-Andalusi-r-rattib Wa Tārīkh Lisānu-d-Dīn Ibn-i-Khattīb** [Combustion of Energetic Materials](#) [Begell House Publishers](#) This edited book contains state-of-the-art information associated with energetic material combustion. There are twelve topical areas, including: Reaction Kinetics of Energetic Materials (Solid, Liquid, and Gel Propellants); Recycling of Energetic Materials; Combustion Performance of Hybrid and Solid Rocket Motors; Ignition and Combustion of Energetic Materials; Energetic Material Defects and Rocket Engine Flowfields; Metal Combustion; Pyrolysis and Combustion Processes of New Ingredients and Applications; Theoretical Modeling and Numerical Simulation of Combustion Processes of Energetic Materials; Combustion Diagnostic Techniques; Propellant and Rocket Motor Stability; Commercial Applications of Energetic Materials (Airbags, Gas Generators, etc.); and Thermal Insulation and Ablation Processes. **Air Pollution by Photochemical Oxidants** [Elsevier Science Limited](#) This book gives a detailed description of the observed behaviour of photochemical oxidants, especially ozone, on the urban, regional, and global scales. The volume includes: basic introductions to the biochemistry and physics of biogenic and anthropogenic production of photochemical oxidant precursors; room-temperature rate coefficients for gas-phase reactions as an aid to intercomparison; the synthesis of recent observations of photochemical oxidants over all spatial and temporal scales of interest; and a large selection of examples from the real atmosphere. Throughout, the emphasis is on understanding topics under simplified or controlled conditions; this book will be of great value to photochemists, environmental chemists, and all those concerned with (atmospheric) pollution. **Calculation of Road Traffic Noise** Supersedes 1975 edition (ISBN 011553676) **Approaches to Exposure Assessment Electrochemistry III** [Springer](#) Das Buch enthält folgende Beiträge: D. Degner, Ludwigshafen, FRG: Industrielle organische ElektrochemieE. Kariv-Miller, R.I. Pacut, G.K. Lehman, Minneapolis/MN, USA: Elektroreduktion organischer Verbindungen mit sehr hohen negativen PotentialenT. Shono, Kyoto, Japan: Synthese alkaloider Substanzen mit einer elektrochemischen SchlüsselreaktionS. Torii, H. Tanaka, T. Inokuchi, Okayama, Japan: Elektrochemische Methoden der Umwandlung von beta-Lactam Antibiotika und Terpenoiden **Calculation of Railway Noise**