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The chapters in this volume present a state of the art of grammaticalization research in the 2010s. They are concerned with the application of new models, such as constructionalization, the ongoing debate about the status and modelling of the development of discourse markers, and reveal a renewed interest in the typological application of grammaticalization and in the cognitive motivations for unidirectionality. The contributors consider data from a wide range of languages, including several that have not or marginally been looked at in terms of grammaticalization: Chinese, Dutch, (varieties of) English, French, German, Japanese, Maltese, Old Saxon, Spanish, and languages of the South Caucasian and Zhuang Tai-Kadai families. The chapters range from theoretical discussions to fine-grained analyses of new historical and comparative language data. This volume will be of interest to linguists studying morphosyntactic changes in a range of languages, and in particular to those interested in models for grammatical change.

Every day in the United States, children and adolescents are victims of commercial sexual exploitation and sex trafficking. Despite the serious and long-term consequences for victims as well as their families, communities, and society, efforts to prevent, identify, and respond to these crimes are largely under-supported, inefficient, uncoordinated, and unevaluated. *Confronting Commercial Sexual Exploitation and Sex Trafficking of Minors in the United States* examines commercial sexual exploitation and sex trafficking of U.S. citizens and lawful permanent residents of the United States under age 18. According to this report, efforts to prevent, identify, and respond to these crimes require better collaborative approaches that build upon the capabilities of people and entities from a range of sectors. In addition, such efforts need to confront demand and the individuals who commit and benefit from these crimes. The report recommends increased awareness and understanding, strengthening of the law's response, strengthening of research to advance understanding and to support the development of prevention and intervention strategies, support for multi-sector and interagency collaboration, and creation of a digital information-sharing platform. A nation that is unaware of these problems or disengaged from solutions unwittingly contributes to the ongoing abuse of minors. If acted upon in a coordinated and comprehensive manner, the recommendations of *Confronting Commercial Sexual Exploitation and Sex Trafficking of Minors in the United States* can help advance and strengthen the nation's emerging efforts to prevent, identify, and respond to commercial sexual exploitation and sex trafficking of minors in the United States.

This is a narrative about three Gray families and their new lives in their chosen home of Van Diemen's Land in the late 1830s and the reasons which propelled each one into such a momentous change. However, their family journey originated centuries before in Ireland during the tumultuous English Civil War when their ancestor Lt Colonel John Grey stepped ashore at Ringsend, Dublin as part of Cromwell's Army on the 15th August 1649. Their story embraces just about all of our human emotions, through the quest for a better life, not only for themselves but for their children and future generations. In essence, like most emigrants, this was their primary motivation although compelling events such as war, economic and social challenges beyond the individual were also at play. The Greys were no different from thousands of other families who chose to travel to Australia and by exploring their lives, experiences and destinies we can learn just a little more about life in early colonial Tasmania.

Food Safety Management: A Practical Guide for the Food Industry, Second Edition continues to present a comprehensive, integrated and practical approach to the management of food safety throughout the production chain. While many books address specific aspects of food safety, no other book guides you through the various risks associated with each sector of the production process or alerts you to the measures needed to mitigate those risks. This new edition provides practical examples of incidents and their root causes, highlighting pitfalls in food safety management and providing key insights into different means for avoiding them. Each section addresses its subject in terms of relevance and application to food safety and, where applicable, spoilage. The book covers all types of risks (e.g., microbial, chemical, physical) associated with each step of the food chain, making it an ideal resource. Addresses risks and controls at various stages of the food supply chain based on food type, including a generic HACCP study and new information on FSMA. Covers the latest emerging technologies for ensuring food safety. Includes observations on what works and what doesn't on issues in food safety management. Provides practical guidelines for the implementation of elements of the

food safety assurance system. Explains the role of different stakeholders of the food supply.

The need for feed for terrestrial and aquatic animals continues to rise with the increasing demand for foods of animal origin; however, the challenge is not only to meet the growing need for feed but also to ensure its safety and thus contributing to the safety of the entire food chain. Feed safety incorporates the impact on human as well as animal health and welfare, which, in turn, can affect productivity. Hazards in feed may be inherent to feed ingredients as well as introduced during feed production, processing, handling, storage, transportation, and use. Hazards in feed may also result from accidental or deliberate human intervention. The expert meeting reviewed and discussed potential hazards in feed of chemical, biological and physical origin. It addressed hazards, as well as their occurrence in feed are described, and transfer from feed to food, relevance for food safety, impact on animal health, and emerging issues and trends. In addition, specific consideration was given to feed and products of feed production technologies of increasing relevance, for instance insects, former food and food processing by-products, biofuels (bioethanol and biodiesel) by-products, aquatic plants and marine resources.

The world's most comprehensive, well documented, and will illustrated book on this subject. Extensive subject and geographical index. 146 photographs, maps and illustrations - mostly color. Free of charge in digital PDF format on Google Books

"Integers" is a refereed online journal devoted to research in the area of combinatorial number theory. It publishes original research articles in combinatorics and number theory. Topics covered by the journal include additive number theory, multiplicative number theory, sequences and sets, extremal combinatorics, Ramsey theory, elementary number theory, classical combinatorial problems, hypergraphs, and probabilistic number theory. Integers also houses a combinatorial games section. This work presents all papers of the 2013 volume in book form.

Education and Gender draws on international research from the USA, the UK, India, Mexico, Sub-Saharan Africa and the Caribbean, to provide a comprehensive global overview of the relationship between gender and education. Rooting constructions of gender and sexuality in specific geographical contexts, the contributors consider a range of issues. Themes discussed include the gender gap in educational attainment; pedagogical strategies; stereotyping in curricula; and education policy. Drawing on best practices worldwide, the contributors identify the current gaps and propose solutions to promote gender-just, equitable and pluralistic societies. Each chapter includes key questions to encourage active engagement with the subject and a list of further reading to support taking the exploration further.

This volume addresses teaching and research across disciplines, communication and identity development, and the centrality of communication in our quickly changing world. Contributors convey the social and global need, value, and responsibility of communication instruction across disciplines.

The aim of the Protein Reviews is to serve as a publication vehicle for review articles that focus on crucial current vigorous aspects of protein structure, function, evolution and genetics. The volumes will appear online before they are published in a printed book. Articles are selected according to their importance to the understanding of biological systems, their relevance to the unravelling of issues associated with health and disease or their impact on scientific or technological advances and developments. Volume 19 focusses on Purinergic receptors, also termed purinoceptors. These are plasma membrane proteins present in nearly all mammalian tissues. They participate in a number of cell functions that include proliferation and migration of neural stem cells, vascular reactivity, apoptosis and cytokine secretion and have been associated with learning and memory, feeding conduct, movement and sleep. They facilitate relaxation of smooth muscle of the gut in response to adenosine (P1 receptors) or ATP (P2 receptors). The chapters in this volume are authored by experts in the field. They deal with aspects of structure and biological activity of selected receptor proteins. The first chapter in this volume reviews the current research on the Mechanism of channel gating and regulation of the activity of calcium-activated chloride channel ANO1. This is followed by a chapter dealing with Structure and function of the two-component cytotoxins of *Staphylococcus aureus* and a chapter on Membrane Fusion and Infection involving the Influenza virus Hemagglutinin. The fourth chapter reviews the impact of arrhythmogenic mutations through the structural determination of the L-type voltage-gated calcium channel. Then there is a chapter that discusses some open questions pertaining to histone post-translational modifications and nucleosome organization in transcriptional regulation. The next chapter deals with regulation of

the extracellular SERPINA5 (protein C inhibitor) penetration through cellular membranes. This is followed by a chapter on coding of Class I and II aminoacyl-tRNA synthetases; a chapter on regulation of nephrin phosphorylation in diabetes and chronic kidney injury and a chapter on The Structure-Forming Junction in oxidative protein folding and the events in the ER. Finally the last chapter deals with the polyspecificity of anti-lipid antibodies and its relevance to the development of autoimmunity. This volume is intended for research scientists, clinicians, physicians and graduate students in the fields of biochemistry, cell biology, molecular biology, immunology and genetics.

This book presents the proceedings of Positivity VII, held from 22-26 July 2013, in Leiden, the Netherlands. Positivity is the mathematical field concerned with ordered structures and their applications in the broadest sense of the word. A biyearly series of conferences is devoted to presenting the latest developments in this lively and growing discipline. The lectures at the conference covered a broad spectrum of topics, ranging from order-theoretic approaches to stochastic processes, positive solutions of evolution equations and positive operators on vector lattices, to order structures in the context of algebras of operators on Hilbert spaces. The contributions in the book reflect this variety and appeal to university researchers in functional analysis, operator theory, measure and integration theory and operator algebras. Positivity VII was also the Zaanen Centennial Conference to mark the 100th birth year of Adriaan Cornelis Zaanen, who held the chair of Analysis in Leiden for more than 25 years and was one of the leaders in the field during his lifetime.

This book constitutes the refereed proceedings of the four workshops that were organized in conjunction with the International Conference on Business Information Systems, BIS 2013, which took place in Poznań, Poland, in June 2013. BIS workshops give researchers the opportunity to share their preliminary ideas and first experimental results and to discuss research hypotheses with a highly focused audience. The 25 papers in this volume were carefully reviewed and selected from 47 submissions and were revised and extended after the event. The workshop topics covered applications and economics of knowledge-based technologies (AKTB), business and IT alignment (BITA), enterprise systems for higher education (ESHE) and formal semantics for future enterprises (FSFE). In addition, two keynote presentations as well as ten papers presented at the PhD Symposium are also included in this volume.

High-stakes public examinations exert a dominant influence in most education systems. They affect both teacher and student behavior, especially at the middle and upper levels of secondary education. The content of past examinations tends to dictate what is taught and how it is taught and, more important, what is learned and how it is learned. By changing aspects of these examinations, especially their content and format, education systems can have a strong positive impact on teacher behavior and student learning, help raise student achievement levels, and better prepare students for tertiary-level education and for employment. Examination agencies, many of which have followed the same procedures over decades, can learn from the successes and failures of other systems. This book addresses current issues related to the development, administration, scoring, and usage of these high-stakes public examinations, identifying key issues and problems related to examinations in many emerging market economies as well as in advanced economies. The book's primary audience consists of public examination officials on national, regional, and state examination boards, but the book should also be of interest to senior education policy makers concerned with certification and learning achievement standards, to academics and researchers interested in educational assessment, to governmental and education agencies responsible for student selection, and to professionals at development organizations. "This extremely well-written and comprehensive book offers a timely review of the diversity of public examination practices worldwide; of the tensions between examinations and learning; and of the technical expertise involved in the creation of valid, reliable, and fair assessments. It reminds us that as "the diploma disease" takes hold with an ever-greater intensity at every stage of education worldwide, and the commercial business of testing flourishes, those concerned with educational quality and meaningful learning must be on guard to prevent the assessment tail wagging the educational dog." Angela W. Little, Professor Emerita, Institute of Education, University College London "This book is very well structured and written and draws on the authors' remarkable global knowledge across countries and histories. It will be a great asset both to administrators responsible for examinations and to academics and other professionals who seek to understand the nature and impact of examinations of different types and in different settings." Mark Bray, UN-

ESCO Chair Professor of Comparative Education, University of Hong Kong; and former Director, UNESCO International Institute for Educational Planning "I am sure that Public Examinations Examined, which thoroughly analyzes the practice of public examinations in different countries and makes profound and well-grounded conclusions, will arouse very great interest and will serve to further improve public examinations." Victor Bolotov, Distinguished Professor, Higher School of Economics, National Research University, Moscow; member, Russian Academy of Education; and former Deputy Minister of Education, Russian Federation

Issues in Allied Fields of Medicine / 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Allied Health. The editors have built Issues in Allied Fields of Medicine: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Allied Health in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Allied Fields of Medicine: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Writing Program Architecture offers an unprecedented abundance of information concerning the significant material, logistical, and rhetorical features of writing programs. Presenting the realities of thirty diverse and award-winning programs, contributors to the volume describe reporting lines, funding sources, jurisdictions, curricula, and other critical programmatic matters and provide insight into their program histories, politics, and philosophies. Each chapter opens with a program snapshot that includes summary demographic and historical information and then addresses the profile of the WPA, program conception, population served, funding, assessment, technology, curriculum, and more. The architecture of the book itself makes comparison across programs and contexts easy, not only among the programs described in each chapter but also between the program in any given chapter and the reader's own program. An online web companion to the book includes access to the primary documents that have been of major importance to the development or sustainability of the program, described in a "Primary Document" section of each chapter. The metaphor of architecture allows us to imagine the constituent parts of a writing program as its foundation, beams, posts, scaffolding—the institutional structures that, alongside its people, anchor a program to the ground and keep it standing. The most extensive resource on program structure available to the field, Writing Program Architecture illuminates structural choices made by leaders of exemplary programs around the United States and provides an authoritative source of standard practice that a WPA might use to articulate programmatic choices to higher administration. Contributors: Susan Naomi Bernstein, Remica Bingham-Risher, Brent Chappelow, Malkiel Choseed, Angela Clark-Oates, Patrick Clauss, Emily W. Cosgrove, Thomas Deans, Bridget Draxler, Leigh Ann Dunning, Greg A. Giberson, Maggie Griffin Taylor, Paula Harrington, Sandra Jamieson, Marshall Kitchens, Michael Knieval, Amy Lannin, Christopher LeCluyse, Sarah Liggett, Deborah Marrott, Mark McBeth, Tim McCormack, John McCormick, Heather McGrew, Heather McKay, Heidi A. McKee, Julianne Newmark, Lori Ostergaard, Joannah Portman-Daley, Jacqueline Preston, James P. Purdy, Ben Rafoth, Dara Regaignon, Nedra Reynolds, Shirley Rose, Bonnie Selting, Stacey Sheriff, Steve Simpson, Patricia Sullivan, Kathleen Tonry, Sanford Tweedie, Meg Van Baalen-Wood, Shevaun Watson, Christy I. Wenger, Lisa Wilkinson, Candace Zepeda

This volume has gathered together some of the world's experts on cell death in liver diseases, covering topics on a variety of types of liver injury. Specifically, the chapters of this volume describe drug and virus-mediated hepatocyte injury, alcohol, lipid and bile acid-induced hepatocyte injury in addition to ischemia-reperfusion-mediated liver injury. The authors link these different types of liver injury to the commonly associated liver inflammation, fibrosis and tumorigenesis. Other topics explored include the various forms of cell death and cell survival pathways that have been identified in the liver, such as apoptosis, necroptosis, pyroptosis and autophagy. This book, along with its companion volume, *Molecules, Systems and Signaling in Hepatic Cell Death*, provides a thorough and comprehensive discussion on the topic of cell death and liver disease. *Cellular Injury in Liver Diseases* is an essential addition to the *Cell Death in Biology and Diseases* series and will appeal to scientists, clinicians and those doing research for drug discovery.

This book is a collection of thoroughly refereed papers presented at the 26th IFIP TC 7 Conference on System Modeling and Optimization, held in Klagenfurt, Austria, in September 2013. The 34 revised papers were carefully selected from numerous submissions. They cover the latest progress in a wide range of topics such as optimal control of ordinary and partial differential equations, modeling and simulation, inverse problems, nonlinear, discrete, and stochastic optimization as well as industrial applications.

A range of resources for CAPE has been specially developed to meet the requirements of the CAPE syllabus. This new textbook has been developed to match the requirements of the CAPE Management of Business syllabus. Full coverage of the CAPE syllabus is provided and the content has a clear focus on the Caribbean economic and business environment. A distinctive feature is the provision of examination-type questions at the end of each major section. The questions come with a suggested time limits for answering, giving useful practice in how to allocate time for the final examination. Management of Business for CAPE includes case studies from a variety of countries and industries, as well as an internal assessment component.

With the success of Cherenkov Astronomy and more recently with the launch of NASA's Fermi mission, very-high-energy astrophysics has undergone a revolution in the last years. This book provides three comprehensive and up-to-date reviews of the recent advances in gamma-ray astrophysics and of multi-messenger astronomy. Felix Aharonian and Charles Dermer address our current knowledge on the sources of GeV and TeV photons, gleaned from the precise measurements made by the new instrumentation. Lars Bergström presents the challenges and prospects of astro-particle physics with a particular emphasis on the detection of dark matter candidates. The topics covered by the 40th Saas-Fee Course present the capabilities of current instrumentation and the physics at play in sources of very-high-energy radiation to students and researchers alike. This book will encourage and prepare readers for using space and ground-based gamma-ray observatories, as well as neutrino and other multi-messenger detectors.

Advances in food safety knowledge, combined with the continuing rapid development of new food products, have had an impact on the need for improved hygiene in the food manufacturing infrastructure. This has created a need for the second edition of *Hygienic Design of Food Factories*, which expands all existing chapters and includes new topics, such as cold storage and the control of air in food refrigeration facilities. Additionally, chapters explore the prevention of food contamination when building during production, the risk assessment of which is becoming important globally, and hygienic building design regulations in Russia and Brazil. Divided into 6 parts, the book is now thoroughly updated and expanded. Part one reviews the implications of hygiene and construction regulation in various countries on food factory design, while taking into account retailer requirements as well. Part two describes site selection, factory layout and the associated issue of airflow. Parts three through four and five then address the hygienic design of the essential parts of a food factory. These include walls, ceilings, floors, selected utility and process support systems, entry and exit points, storage areas and changing rooms. Lastly part six covers the management of building work and factory inspection when commissioning the plant. With its distinguished editors and international team of contributors, *Hygienic Design of Food Factories*, 2nd edition, continues to be an essential reference for managers of food factories, food plant engineers and all those with an academic research interest in the field. Presents an authoritative overview of hygiene control in the design, construction and renovation of food factories Examines the implications of hygiene and construction regulation in various countries on food factory design Describes site selection, factory layout and associated issues of service provision Intermediate First Year Physics Test papers Issued by Board of Intermediate Education w.e.f 2013-2014.

Australian Social Policy and the Human Services contends that human service practitioners benefit from understanding the relationship between social policy, the human services and their own practices. In this comprehensive introduction to the subject, readers are encouraged to develop their policy literacy, or critical understanding of the development, implementation and evaluation of social policies. Part I explores the debates and organising principles of social policy and the human services. Part II focuses on the development and delivery of social policy, including its history, and a discussion of the Third Sector in Australia. Part III covers specific areas of social policy: income maintenance, employment, housing, health care, family and child care, and indigenous social policy. Emerging issues, such as globalisation and sustainability, are examined in Part IV. Each chapter features discussion points, exercises, case studies, further reading lists and links with the Australian Association of Social Workers Practice Standards (2013).

Angiogenesis is the physiological process where new blood vessels grow from existing ones, in order to replenish tissues suffering from inadequate blood supply. Perhaps the most studied angiogenic process occurs in solid tumors whose growing mass and expanding cells create a constant demand for additional supply of oxygen and nutrients for survival. However, other physiological and clinical conditions, such as wound healing, ischemic events, autoimmune and age-related diseases also involve angiogenesis. Angiogenesis is a well-structured process that begins when oxygen and nutrients are depleted, leading to the release of chemokines and growth factors that attract immune cells, particularly macrophages and endothelial cells to the site. Macrophages that are recruited to the site, as well as tissue cells and endothelial cells, secrete pro-angiogenic mediators that affect endothelial

cells and promote angiogenesis. These mediators include growth factors such as vascular endothelial cell growth factor (VEGF), matrix metalloproteinases (MMPs), as well as low levels of mediators that are usually seen as pro-inflammatory but are pro-angiogenic when secreted in low levels (e.g. nitric oxide (NO) and TNFa). Thus, macrophages play a major role in angiogenesis. Macrophages exhibit high plasticity and are capable of shifting between different activation modes and functions according to their changing microenvironment. Small differences in the composition of activating factors (e.g. TLR ligands such as LPS, anti-inflammatory cytokines, ECM molecules) in the microenvironment may differently activate macrophages to yield classically activated macrophages (or M1 macrophages) that can kill pathogen and tumor cells, alternatively activated macrophages (or M2 macrophages) that secrete anti-inflammatory cytokines, resolution macrophages (rM?) that are involved in the resolution of inflammation, or regulatory macrophages (e.g. Myeloid-Derived Suppressor Cells - MDSCs) that control the function of other immune cells. In fact, macrophages may be activated in a spectrum of subsets that may differently contribute to angiogenesis, and in particular non-classically activated macrophages such as tumor-associated macrophages (TAMs) and Tie2-expressing monocytes (TEMs) can secrete high amounts of pro-angiogenic factors (e.g. VEGF, MMPs) or low levels of pro-inflammatory mediators (e.g. NO or TNFa) resulting in pro-angiogenic effects. Although the importance of macrophages as major contributors and regulators of the angiogenic process is well documented, less is known about the interactions between macrophages and other cell types (e.g. tumor cells, normal epithelial cells, endothelial cells) that regulate angiogenesis. We still have only limited understanding which proteins or complexes mediate these interactions and whether they require cell-cell contact (e.g. through integrins) or soluble factors (e.g. the EGF-CSF-1 loop), which signaling pathways are triggered in each of the two corresponding cell types, and how this leads to secretion of pro- or antiangiogenic factors in the microenvironment. The regulation of such interactions and through them of angiogenesis, whether through post-translational modifications of proteins or via the involvement of microRNA, is still unclear. The goal of this Research Topic is to highlight these interactions and their regulation in the context of both physiological and pathological conditions.

The ability of pathogens, such as parasites, bacteria, fungi and viruses to invade, persist and adapt in both invertebrate and vertebrate hosts is multifactorial and depends on both pathogen and host fitness. Communication between a pathogen and its host relies on a wide and dynamic array of molecular interactions. Through this constant communication most pathogens evolved to be relatively benign, whereas killing of its host by a pathogen represents a failure to adapt. Pathogens are lethal to their host when their interaction has not been long enough for adaptation. Evolution has selected conserved immune receptors that recognize signature patterns of pathogens as non-self elements and initiate host innate responses aimed at eradicating infection. Conversely, pathogens evolved mechanisms to evade immune recognition and subvert cytokine secretion in order to survive, replicate and cause disease. The cell signaling machinery is a critical component of the immune system that relays information from the receptors to the nucleus where transcription of key immune genes is activated. Host cells have developed signal transduction systems to maintain homeostasis with pathogens. Most cellular processes and cell signaling pathways are tightly regulated by protein phosphorylation in which protein kinases are key protagonists. Pathogens have developed multiple mechanisms to subvert important signal transduction pathways such as the mitogen activated protein kinase (MAPK) and the nuclear factor kB (NF-kB) pathways. Pathogens also secrete effectors that manipulate actin cytoskeleton and its regulators, hijack cell cycle machinery and alter vesicular trafficking. This research topic focuses on the cellular signaling mechanisms that are essential for host immunity and their subversion by pathogens.

This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

The world's most comprehensive, well documented, and well illustrated book on this subject. With extensive subject and geographical index. 378 photographs and illustrations - mostly color. Free of charge in digital PDF format on Google Books.

This book brings together leading scholars of Caribbean education from around the world. Schooling continues to hold a special place both as a means to achieve social mobility and as a mechanism for supporting the economy of Caribbean nations. In this book, the Caribbean includes the Greater and Lesser Antilles. The Greater Antilles is made up of the five larger islands (and six countries) of the northern Caribbean, including the Cayman Islands, Cuba, Hispaniola (Haiti and the Dominican Republic), Puerto Rico,

and Jamaica. The Lesser Antilles includes the Windward and Leeward Islands which are inclusive of Barbados, St. Vincent, Trinidad and Tobago along with several other islands. Each chapter provides a unique perspective on the various social and cultural issues that define Caribbean education and schooling. The Handbook on Caribbean Education fills a void in the literature and documents the important research being done throughout the Caribbean. Creating a space where Caribbean voices are a part of "international" discussions about 21st century global matters and concerns is an important contribution of this work.

THE BARTON SERIES The Barton Series was conceptualized and written with the primary objective of encouraging young students to appreciate how mathematics is used in the real world. The series explore mathematics through the creation of a model child, Barton, whose life experiences are captured through delightful, realistic, and entertaining stories. The stories span just about all the activities in which young children participate in school and with their families during their young, juvenile, carefree, and adventurous years. The authors believe that a major and poignant barrier to the learning, understanding, and appreciating mathematics is the inability of students to comprehend the language embedded in worded problems. The books, therefore, provide a novel vehicle to connect numeracy and literacy since comprehension, most assuredly, is really the key to decoding the mathematics. And so several visual props have been deliberately added in every story

to assist learners who may be challenged in word recognition. The series also aims at inculcating moral and ethical values as the stories are designed to encourage good behavior and caring ways among young children. While many of the stories build on mathematics content, others focus on the process goals of mathematics such as critical thinking, problem solving, and developing positive dispositions such as respect, perseverance, and team spirit. Thus, mathematics becomes user-friendly through this methodology that seeks to eliminate anxiety and fear for the discipline. Such negative experiences have prevented thousands of students from learning mathematics throughout their lives. The series appeals to the child's curiosity and desire to have fun as they connect their life experiences to mathematics. The reader will experience meaningful encounters with mathematics and so appreciate its inherent beauty and efficacy in solving real life problems. These colorful and beautifully illustrated books will strongly complement not just the mathematics but language arts and several other curriculum areas that are incorporated at the primary level in any education system. **JUDGE BARTON** In the stories of Judge Barton, the reader is enchantingly teased into reading, learning, and comprehending the properties of several geometrical shapes. Barton, in his reverie encounter with these three-dimensional figures, was persuaded to act as the judge, as they competed for the prestigious title of the Worlds Best Shape. The shapes, displaying a plethora of human characteristics and emotions, present their case under the strict rules, guidance, and supervision imposed by

Judge Barton. Their stories entertain, enrapture, and captivate the reader as each shape perseveres to reveal their individual characteristics and boast the uniqueness of their properties. The detailed descriptions of their roles and functions are charmingly blended with sound mathematical knowledge, literary sparkle, unconcealed human emotions, and the occasional dash of humor. The shapes presentations, in the keenly contested competition, were individually designed to impress the unbiased Judge Barton into awarding the title to the best shape. The stories take unusual twists and turns as the osmotic infiltration of human empathy, awareness, and reality slowly creeps in. The plot thickens as momentum gathers and attracts much more than the competitors. The lessons learnt and taught, especially in the unprecedented final outcome, are most assuredly heart-warming with the numerous skills and values that were added. The reader, regardless of age, is sure to ask for more as they find delight in the mathematics of the book, not only because it is useful, but they will delight in it because it has been alloyed in beautiful literature.

Author has written several excellent Springer books.; This book is a sequel to Introduction to Topological Manifolds; Careful and illuminating explanations, excellent diagrams and exemplary motivation; Includes short preliminary sections before each section explaining what is ahead and why

From planets and comets to sunspots and spacewalks, there's so much to know about space! Show Me Space has more than 100 facts and definitions about our solar system and beyond.