

PO LEUNG KUK MATH COMPETITION

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Penilaian Otentik Dalam Pembelajaran Bahasa Burhan Nurgiantoro 2018-07-11 Kurikulum Berbasis Kompetensi, yang kini bernama Kurikulum Tingkat Satuan Pendidikan (KTSP), menekankan capaian kompetensi untuk melakukan sesuatu sesuai dengan karakteristik tiap mata pelajaran. Hal itu antara lain ditandai dengan pelaksanaan pembelajaran yang mempergunakan pendekatan pembelajaran kontekstual (CTL, Contextual Teaching and Learning). Pendekatan pembelajaran kontekstual, pada giliran selanjutnya, menghendaki penilaian hasil pembelajaran dengan mempergunakan model penilaian otentik (Authentic Assessment). Penilaian otentik dalam pembelajaran memrasyarkan dua hal yang mesti ada, yaitu kinerja dan bermakna. Dalam mata pelajaran Bahasa (Indonesia), hal itu berarti bahwa pengukuran hasil pembelajaran harus berupa kinerja berbahasa aktif produktif yang mencerminkan kebutuhan kehidupan nyata tersebut. Berbagai kinerja berbahasa yang diujikan di kelas haruslah mencerminkan kebutuhan kinerja berbahasa yang sesungguhnya atau yang dibutuhkan di dunia kerja. Penilaian otentik tidak dimaksudkan untuk menggantikan penilaian tradisional, khususnya bentuk tes objektif pilihan ganda yang lebih bersifat merespons jawaban yang lazim dipergunakan dalam ujian-ujian akhir seperti ujian nasional (UN) dan ulangan umum (UU). Ia hadir untuk saling melengkapi dan menutup kekurangan penilaian objektif. Skor hasil pengukuran penilaian otentik mencerminkan kompetensi berbagai bentuk kinerja berbahasa peserta didik sepanjang kegiatan pembelajaran, sedang skor hasil pengukuran tes objektif pada akhir pembelajaran menunjukkan capaian kompetensi selama satuan waktu tertentu. Berbagai hal terkait dengan penilaian otentik dikemukakan dalam buku ini, termasuk pengolahan skor-skor hasil pengukuran, dan tidak menutup kemungkinan untuk dipakai dalam mata pelajaran bahasa-bahasa yang lain. Selain itu, model penilaian otentik yang dikembangkan dalam buku ini juga dapat dipergunakan untuk sekolah-sekolah jenjang yang lain, misalnya SMA dan SMK, dengan sedikit penyesuaian jika diperlukan. [UGM Press, UGM, Gadjah Mada University Press]

*The Dragon and the Crown Stanley S.K. Kwan 2008-11-01 In his autobiography Stanley S.K. Kwan discusses his roots, Hong Kong after the War, Hang Seng Bank, the new China and home and country. El billar no es de vago Carlos Bosch 2012-10-17 Desde tiempos del cardenal Richelieu, cuando entre las habilidades de un mosquetero se incluía el saber jugar billar, hasta las películas como *The Hustler* y *The Colour of Money*, el billar siempre ha fascinado por su combinación de juego y ciencia. Carlos Bosch demuestra con abundancia de ejemplos y mediante la resolución de problemas geométricos y algebraicos que el billar merece utilizarse como una lúdica herramienta de razonamiento. El autor toma como punto de partida el regalo de un taco de billar para esbozar la historia de este juego y explicar sus nociones básicas y los detalles de su evolución.*

Kumpulan Soal Unik Matematika 1

Algebras and Combinatorics K. P. Shum 1999 This volume contains the refereed and edited versions of papers presented at the First International Congress in Algebra & Combinatorics, held in July 1997 in Hong Kong. Research work in algebra and combinatorics, which has never been published before, is introduced, along with expository papers in semigroups, groups, rings, general algebras, ordered algebras, graphs and combinatorics. The work is a useful reference book for researchers and graduate students working in these fields of mathematics.

Tempo 2008

Abacus & Mental Arithmetic Course Book Mathematician All examples and exercises are provided with detailed and smooth versions of video teaching It is suitable to - Children with strong self-learning ability - Parents who train their children on their own - Kindergarten or Primary school teacher - Students majoring in early childhood education or elementary education in universities and colleges - Those who are interested in becoming an abacus and mental arithmetic teacher or are interested in running an abacus and mental arithmetic class

The Art of Problem Solving, Volume 1 Sandor Lehoczky 2006-08-01 "...offer[s] a challenging exploration of problem solving mathematics and preparation for programs such as MATHCOUNTS and the American Mathematics Competition."--Back cover

The History of Korea H. B. Hulbert 2014-01-21 With a modern introduction by Clarence Weems, originally published in Seoul in 1905 to wide acclaim as the only authentic history of Korea from prehistory to the Twentieth Century, this two volume work remains required reading for students of Western historiography of Korea.

The Other Hundred Educators Global Institute Global Institute For Tomorrow 2017-03 The world of education is far more diverse and a great deal more interesting than the mainstream media would have us believe. The notion that our most valuable educators might have more to offer than entry to elite schools forever striving for the top of dubious rankings is all-too-rarely acknowledged in today's society. Questioning our conventional understanding, The Other Hundred Educators introduces the people who have pioneered unique ways of teaching that have changed the lives of many. In many cases they have made more profound and life-altering contributions to the expansion of human knowledge than any formal institution -- and yet you will never see their names at the top of so-called official rankings and league tables. From the Madrasah teachers of Tul Banat, Pakistan, who teach girls history, Arabic and the Qur'an to Alice Waters of the Edible Schoolyard project in America, who has been teaching health and nutrition by converting gardens and kitchens into classrooms, this is a celebration of 100 educators whose names you should know.

People of Today 2001

Siap Mhdp UN 09 Bhs Ind SMA/MA

CARA BERPIKIR SUPRARASIONAL Raden Ridwan Hasan Saputra 2017-06-20 Berharap bisa sepi dari masalah, pasti hanya mimpi. Namun, kita bisa dengan mudah menemukan solusi saat masalah datang menghampiri. Berkeinginan memiliki kekayaan yang melimpah, tentu tidaklah mudah. Namun, bila setiap kebutuhan kita terpenuhi dan tercukupi dari jalan yang tak terduga bukankah itu anugerah terindah? Keduanya bisa kita wujudkan, asal kita mau mengubah cara berpikir kita. Didasarkan pada pengalaman penulis mengembangkan lembaga pendidikan dengan Sistem Metode Seikhlasnya (SMS) yang sukses mengantarkan siswanya berprestasi di tingkat dunia, buku ini mengajak kita untuk menghadapi kehidupan ini dengan cara berpikir suprarasional. Jika kita berpikir rasional, tentu Sistem Metode Seikhlasnya akan menyebabkan lembaga pendidikan yang menerapkannya akan bangkrut. Ternyata tidak, justru berkembang. Bahkan telah membuka cabang. Inilah cara kerja berpikir suprarasional. Jalannya tak terduga. Buku persembahan Republika Penerbit [Republika, bukurepublika,

Penerbit Republika]

Rehabilitasi Kotagede Setelah Gempa Yogyakarta Pusat Data Dan Analisa Tempo Rehabilitasi Kotagede Setelah Gempa Yogyakarta

(Free version) Abacus & Mental Arithmetic Course Book Mathewmatician All examples and exercises are provided with detailed and smooth versions of video teaching It is suitable to - Children with strong self-learning ability - Parents who train their children on their own - Kindergarten or Primary school teacher - Students majoring in early childhood education or elementary education in universities and colleges - Those who are interested in becoming an abacus and mental arithmetic teacher or are interested in running an abacus and mental arithmetic class

Many Middle Passages Emma Christopher 2007-09-03 "Extends the concept of the Middle Passage to encompass the expropriation of people across other maritime and inland routes. No previous book has highlighted the diversity and centrality of middle passages, voluntary and involuntary, to modern global history."—Kenneth Morgan, author of Slavery and the British Empire "This volume extends the now well-established project of 'Atlantic World Studies' beyond its geographic and chronological frames to a genuinely global analysis of labour migration. It is a work of major importance that sparkles with new discoveries and insights."—Rick Halpern, co-editor of Empire and Others: British Encounters with Indigenous Peoples, 1600-1850

Epidemiology Unmasked Stephanie Wang 2020-06-29 This introductory epidemiology book provides an easy approach to understanding infectious disease outbreaks. This book is perfect for anyone with an ambition to learn about health-related concepts and take on an intellectual challenge, including those with little to no background in public health. The book aims to spread awareness about epidemiology so that people can understand the impact of their actions and act responsibly in the future, as well as make the general population more prepared for the next public health crisis. It provides a friendly introduction to topics such as infectious diseases, epidemiological study designs, and a step-by-step breakdown of the COVID-19 pandemic. Editorial Reviews: "Stephanie, great job on this book. I enjoyed reading it and I see you did lots of research into it and you were right to the point. It reads very nicely and clearly. You are set to become a successful epidemiologist!!" - Dr. Roy Chemaly, MD, Director of Infection Control, MD Anderson Cancer Center; Professor of Epidemiology, University of Texas School of Public Health "Brilliant, easy-to-read, and an amazing resource for every ambitious epidemiology student. Epidemiology Unmasked provides a gentle introduction to the hallmark of public health—epidemiology. I read the book from beginning to end, and every moment was full of enjoyment and packed with information. The book serves a variety of purposes: a fun read for anyone, a textbook for gifted students, a scholarly guide for science competitions, among several others." - Dr. Zhaoming He, Professor of Bioengineering, Texas Tech University

Hogart the Hedgehog Turns Nink Blair Reeve 2015-12-01

METODE KOTAK-KOTAK Raden Ridwan Hasan Saputra 2017-06-28 Dalam kehidupan sehari-hari, kita tidak bisa terlepas dari hal-hal yang terkait dengan kegiatan berhitung atau membilang. Sementara, tidak semua orang suka dan pandai dalam matematika. Melalui Metode Kotak-Kotak, perhitungan matematika seperti penjumlahan, pengurangan, pembagian, dan perkalian menjadi lebih mudah dipahami. Metode Kotak-Kotak merupakan hasil penelitian Tim Klinik Pendidikan MIPA yang dipimpin oleh Raden Ridwan Hasan Saputra, dan telah diujicobakan di berbagai sekolah, pesantren, dan instansi. Buku ini sangat cocok untuk membantu mereka yang tidak suka matematika menjadi lebih mudah memahami perhitungan matematika. Metode ini bisa diterapkan mulai dari usia anak-anak hingga dewasa. Buku persembahan Republika Penerbit [Republika, bukurepublika, Penerbit Republika, kumpulan soal matematika]

Advanced Nutrition and Dietetics in Diabetes Louise Goff 2015-10-20 Published on behalf of The

British Dietetic Association, Advanced Nutrition and Dietetics in Diabetes is an exploration of the evidence and practice of nutrition in diabetes, offering a global view of the lifestyle interventions for the prevention and management of diabetes, including management of complications and special population groups. With internationally recognised authors, this book applies the rigour of evidence-based medicine to important enduring topics in diabetes, such as: public health efforts at diabetes prevention formulating nutritional guidelines for diabetes carbohydrates and the glycaemic index the management of diabetes in older people The authors draw on their research and practical experience to offer sound guidance on best practice, ensuring that interventions are both scientifically secure and effective.

ABOUT THE SERIES Dietary recommendations need to be based on solid evidence, but where can you find this information? The British Dietetic Association and the publishers of the Manual of Dietetic Practice present an essential and authoritative reference series on the evidence base relating to advanced aspects of nutrition and diet in selected clinical specialties. Each book provides a comprehensive and critical review of key literature in its subject. Each covers established areas of understanding, current controversies and areas of future development and investigation, and is oriented around six key themes: Disease processes, including metabolism, physiology, and genetics Disease consequences, including morbidity, mortality, nutritional epidemiology and patient perspectives Nutritional consequences of diseases Nutritional assessment, drawing on anthropometric, biochemical, clinical, dietary, economic and social approaches Clinical investigation and management Nutritional and dietary management Trustworthy, international in scope, and accessible, Advanced Nutrition and Dietetics is a vital resource for a range of practitioners, researchers and educators in nutrition and dietetics, including dietitians, nutritionists, doctors and specialist nurses. Please note Due to recent developments in this area, Chapter 4.3 on Nutritional management of glycaemia in type 2 diabetes has been withdrawn from the publication, and all future reprints will be replaced by a new chapter. All ebook versions are already updated. The contributor retains copyright to this chapter whilst their name still appears associated to the chapter.

Mathematics Olympiad Masterpiece Series - High School Level Mathematician Suitable for high school students with high mathematics ability and people above high school level. High school students with higher mathematics ability should learn more in-depth Mathematical Olympiad topics through independent learning methods to further improve their mathematics level, which is conducive to studying university subjects in the future.

The Contest Problem Book VII: American Mathematics Competitions, 1995–2000 Contests Harold B. Reiter 2019-01-24 This is the seventh book of problems and solutions from the Mathematics Competitions. Contest Problem Book VII chronicles 275 problems from the American Mathematics Contests (AMC 12 and AMC 10 for the years 1995 through 2000, including the 50th Anniversary AHSME issued in 1999). Twenty-three additional problems with solutions are included. A Problem Index classifies the 275 problems in to the following subject areas: Algebra, Complex Numbers, Discrete Mathematics (including Counting Problems), Logic, and Discrete Probability, Geometry (including Three Dimensional Geometry), Number Theory (including Divisibility, Representation, and Modular Arithmetic), Statistics, and Trigonometry. For over 50 years many excellent exams have been prepared by individuals throughout our mathematical community in the hope that all secondary school students will have an opportunity to participate in these problem solving and enriching mathematics experiences. The American Mathematics Contests are intended for everyone from the average student at a typical school who enjoys mathematics to the very best student at the most special school.

Who's Who in Science and Engineering 2008-2009 Marquis Who's Who, Inc. 2007-12

Kumpulan Soal Unik Matematika 2

Principles and Practice of College Health John A. Vaughn 2020-12-04 This unique and comprehensive

title offers state-of-the-art guidance on all of the clinical principles and practices needed in providing optimal health and well-being services for college students. Designed for college health professionals and administrators, this highly practical title is comprised of 24 chapters organized in three sections: Common Clinical Problems in College Health, Organizational and Administrative Considerations for College Health, and Population and Public Health Management on a College Campus. Section I topics include travel health services, tuberculosis, eating disorders in college health, and attention deficit hyperactivity disorder among college students, along with several other chapters. Subsequent chapters in Section II then delve into topics such as supporting the health and well-being of a diverse student population, student veterans, health science students, student safety in the clinical setting, and campus management of infectious disease outbreaks, among other topics. The book concludes with organizational considerations such as unique issues in the practice of medicine in the institutional context, situating healthcare within the broader context of wellness on campus, organizational structures of student health, funding student health services, and delivery of innovative healthcare services in college health. Developed by a renowned, multidisciplinary authorship of leaders in college health theory and practice, and coinciding with the founding of the American College Health Association 100 years ago, Principles and Practice of College Health will be of great interest to college health and well-being professionals as well as college administrators.

*MATEMATIKA NALARIA REALISTIK 11 Raden Ridwan Hasan Saputra 2015-12-15 Matematika Nalaria Realistik 11 merupakan buku kumpulan soal kompetisi matematika yang diperuntukkan bagi siswa Sekolah Dasar (SD). Soal-soal ini dibuat dengan mengadaptasi soal-soal dari berbagai kompetisi nasional dan internasional. Juga telah diuji-cobakan dalam berbagai kompetisi tingkat daerah dan nasional di Indonesia. Latihan-latihan dan solusi dalam buku ini akan membiasakan siswa mampu memahami dan menyelesaikan soal-soal matematika dengan keterampilan bernalar. Siswa akan diajarkan menganalisis masalah, lalu menarik kesimpulan, dan pada akhirnya menyelesaikan masalah dengan logika. * Matematika Nalaria Realistik 11 ditulis dan disusun oleh Ir. R. Ridwan Hasan Saputra, M. Si, Presiden Direktur Klinik Pendidikan MIPA yang telah sukses mengantarkan siswa-siswa mengikuti berbagai kompetisi dan olimpiade matematika di dalam maupun luar negeri. Ia juga mendirikan Kampung Matematika, dan kini tengah mengagas ide Permainan Matematika untuk militer, kepolisian, dan Bela Negara. Berkat jasanya di bidang matematika dan sains, penulis memperoleh berbagai penghargaan, di antaranya penghargaan Satya Lencana Wira Karya pada tahun 2007, Tokoh Perubahan Republika 2013, dan Nominator Liputan 6 Award 2016. Buku persembahkan Republika Penerbit [Republika, bukurepublika, Penerbit Republika, soal matematika]*

The Dynamics of Beijing-Hong Kong Relations Sonny Shiu-hing Lo 2008-04-01 This book critically assesses the implementation of the "one country, two systems" in the Hong Kong Special Administrative Region (HKSAR) from the political, judicial, legal, economic and societal dimensions. The author contends that there has been a gradual process of mainlandization of the HKSAR, meaning that Hong Kong is increasingly economically dependent on the People's Republic of China (PRC), politically deferent to the central government on the scope and pace of democratic reforms, socially more patriotic toward the motherland and more prone to media self-censorship, and judicially more vulnerable to the interpretation of the Basic Law by the National People's Congress. This book aims to achieve a breakthrough in relating the development of Hong Kong politics to the future of mainland China and Taiwan. By broadening the focus of the "one country, two systems" from governance to the process of Sino-British negotiations and their thrust-building efforts, this book argues that the diplomats from mainland China and Taiwan can learn from the ways in which Hong Kong's political future was settled in 1982–1984. This is a book for students, researchers, scholars, diplomats and lay people.

Integrating Engineering Education and Humanities for Global Intercultural Perspectives Zhanna

Anikina 2020-05-06 This book presents papers from the International Conference on Integrating Engineering Education and Humanities for Global Intercultural Perspectives (IEEHGIP 2020), held on 25–27 March 2020. The conference brought together researchers and practitioners from various disciplines within engineering and humanities to offer a range of perspectives. Focusing on, but not limited to, Content and Language Integrated Learning (CLIL) in Russian education the book will appeal to a wide academic audience seeking ways to initiate positive changes in education.

Competitions for Young Mathematicians Alexander Soifer 2017-06-15 This book gathers the best presentations from the Topic Study Group 30: Mathematics Competitions at ICME-13 in Hamburg, and some from related groups, focusing on the field of working with gifted students. Each of the chapters includes not only original ideas, but also original mathematical problems and their solutions. The book is a valuable resource for researchers in mathematics education, secondary and college mathematics teachers around the globe as well as their gifted students.

Cooperative Stochastic Differential Games David W.K. Yeung 2006-05-11 Numerical Optimization presents a comprehensive and up-to-date description of the most effective methods in continuous optimization. It responds to the growing interest in optimization in engineering, science, and business by focusing on the methods that are best suited to practical problems. For this new edition the book has been thoroughly updated throughout. There are new chapters on nonlinear interior methods and derivative-free methods for optimization, both of which are used widely in practice and the focus of much current research. Because of the emphasis on practical methods, as well as the extensive illustrations and exercises, the book is accessible to a wide audience. It can be used as a graduate text in engineering, operations research, mathematics, computer science, and business. It also serves as a handbook for researchers and practitioners in the field. The authors have strived to produce a text that is pleasant to read, informative, and rigorous - one that reveals both the beautiful nature of the discipline and its practical side.

Allelopathy Manuel J. Reigosa 2006-02-28 There are many good books in the market dealing with the subject of allelopathy. When we designed the outline of this new book, we thought that it should include as many different points of view as possible, although in an integrated general scheme. Allelopathy can be viewed from different of perspectives, ranging from the molecular to the ecosystem level, and including molecular biology, plant biochemistry, plant physiology, plant ecophysiology and ecology, with information coming also from the organic chemistry, soil sciences, microbiology and many other scientific disciplines. This book was designed to include a complete perspective of allelopathic process. The book is divided into seven major sections. The first chapter explores the international development of allelopathy as a science and next section deals with methodological aspects and it explores potential limitations of actual research. Third section is devoted to physiological aspects of allelopathy. Different specialists wrote about photosynthesis, cell cycle, detoxification processes, abiotic and biotic stress, plant secondary metabolites and respiration related to allelopathy. Chapters 13 through 16 are collectively devoted to various aspects of plant ecophysiology on a variety of levels: microorganisms, soil system and weed germination. Fundamental ecology approaches using both experimental observations and theoretical analysis of allelopathy are described in chapters 16 and 17. Those chapters deal with the possible evolutionary forces that have shaped particular strategies. In the section named “allelopathy in different environments”, authors primarily center on marine, aquatic, forest and agro ecosystems. Last section includes chapters addressing application of the knowledge of allelopathy.

Teaching Computational Thinking in Primary Education Ozcinar, Huseyin 2017-10-31 Computational technologies have been impacting human life for years. Teaching methods must adapt accordingly to provide the next generation with the necessary knowledge to further advance these human-assistive technologies. Teaching Computational Thinking in Primary Education is a crucial resource that

examines the impact that instructing with a computational focus can have on future learners. Highlighting relevant topics that include multifaceted skillsets, coding, programming methods, and digital games, this scholarly publication is ideal for educators, academicians, students, and researchers who are interested in discovering how the future of education is being shaped.

Anglo-China Christopher Munn 2013-12-16 A study of the first three decades of British rule in Hong Kong, focusing on the troubled and controversial process of establishing a British colony at Hong Kong and on the reception of British rule by people in the region.

Super Genius Olimpiade Matematika SD

??? 1984

Supercritical Fluid Technology (1991) Thomas J. Bruno 2017-11-22 In this volume, we have collected a series of reviews that cover both experimental and theoretical work geared toward the more exact requirements of current SFE applications. While we have artificially divided the volume into experimental and theoretical sections, natural overlaps will be apparent. Many of the papers on experimental and theoretical sections, natural overlaps will be apparent. Many of the papers on experimental technique contain discussions on equation of state correlations. Indeed, a good deal of the experimental work is intimately tied to a mathematical description of fluid mixtures. The theoretical section presents reviews that cover the modern theory of critical phenomena, methods to correlate near critical experimental results and approaches to understanding the behavior of near critical fluids from microscopic theory. It is hoped that the scope of these reviews will provide the reader with the basis to further develop our understanding of the behavior of supercritical fluids.

Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society 2003

The Peak in the Middle Mark E. Saul 2010 *Good teaching is responsive to individual differences, tailoring instruction to meet the needs of individual learners. In gifted education, students need a curriculum that is differentiated (by level, complexity, breadth, and depth), developmentally appropriate, and conducted at a more rapid rate. This collection of essays from experts in the field addresses the particular needs educational institutions have in serving their gifted students. Topics include policy and philosophy; specific program models; supplemental materials and programs; knowledge and skills that teachers need in their work; international opportunities and possibilities; and equity. Many of the points raised are as valid for general education students as for gifted students. Many relate equally well to high school or elementary school. And many apply across the curriculum--not just to mathematics. This book contains nine chapters: (1) Philosophy and Policies to Guide Middle School Mathematics Instruction: Issues of Identification, Acceleration, and Grouping (Tamra Stambaugh and Camilla P. Benbow); (2) Program Models: Matching the Program to the Abilities, Needs, and Interests of Mathematically Talented Students (Ann Lupkowski-Shoplik); (3) Using Curriculum to Develop Mathematical Promise in the Middle Grades (M. Katherine Gavin and Linda Jensen Sheffield); (4) Preparing Teachers for Mathematically Talented Middle School Students (Carole Greenes, Dawn Teuscher, and Troy P. Regis); (5) Extracurricular Opportunities for Mathematically Gifted Middle School Students (Richard Rusczyk); (6) Articulation (Janet Lynne Tassell, Rebecca Ruth Stobaugh, Beth Duvall Fleming, and Chloe R. Harper); (7) Middle School Geometry: a Case Study (John Benson); (8) Equity (Max Warshauer, Terry McCabe, M. Alejandra Sorto, Sharon Strickland, Hiroko Warshauer, and Alex White); and (9) Inspiring and Developing Student Interest: Several Examples from Foreign Schools (Alexander Karp). A preface and afterword are also included.*

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Essential Concepts of Set Theory Robert S. Y. Wong 2016-07-01 For thousands of years, it is generally believed that mathematics begins with the natural numbers and counting. But there is something more

fundamental than counting. It is the grouping of things. If a child is shown a picture of a farm with sheep and cows here and there and asked to count the number of sheep, the child would first put the sheep in a group mentally and then count the number of sheep in the group. Without grouping, counting cannot happen. Therefore, mathematics begins with the grouping of objects, which is the object of study of set theory. In this book, we explore the fundamental concepts of sets and related topics: propositional logic, methods of proof, relations and functions. Unlike the technical approach adopted in most books, we use many everyday examples to show that these concepts can be found everywhere in our daily life. The book also has plenty of exercises and solutions to all exercises are provided.