

## Complex Toolbox Guide

The goal of this book is to gather in a single work the most relevant concepts related in optimization methods, showing how such theories and methods can be addressed using the open source, multi-platform R tool. Modern optimization methods, also known as metaheuristics, are particularly useful for solving complex problems for which no specialized optimization algorithm has been developed. These methods often yield high quality solutions with a more reasonable use of computational resources (e.g. memory and processing effort). Examples of popular modern methods discussed in this book are: simulated annealing; tabu search; genetic algorithms; differential evolution; and particle swarm optimization. This book is suitable for undergraduate and graduate students in computer science, information technology, and related areas, as well as data analysts interested in exploring modern optimization methods using R. This new edition integrates the latest R packages through text and code examples. It also discusses new topics, such as: the impact of artificial intelligence and business analytics in modern optimization tasks; the creation of interactive Web applications; usage of parallel computing; and more modern optimization algorithms (e.g., iterated racing, ant colony optimization, grammatical evolution).

This book provides the reader with an understanding of the hazards involved in using electrical equipment in Potentially Explosive Atmospheres. It is based on the newly adopted international IEC79 Series of Standards that are now harmonizing and replacing older national Standards. Explosion-proof installations can be expensive to design, install and operate. The strategies and techniques described in this book can significantly reduce costs whilst maintaining plant safety. The book explains the associated terminology and its correct use - from Area Classification through to the selection of explosion-protected electrical apparatus, describing how protection is achieved and maintained in line with these international requirements. The IEC standards require that engineering staff and their management are trained effectively and safely in Hazardous Areas, and this book is designed to help fulfill that need. A basic understanding of instrumentation and electrical theory would be of benefit to the reader, but no previous knowledge of hazardous area installation is required. \* An engineer's guide to the hazards and best practice for using electrical equipment in Potentially Explosive Atmospheres. \* Fully in line with the newly adopted international standards, the IEC79 series. \* Clear explanations of terminology and background information make this the most accessible book on this subject. Nonlinear Parameter Optimization Using R John C. Nash, Telfer School of Management, University of Ottawa, Canada A systematic and comprehensive treatment of optimization software using R In recent decades, optimization techniques have been streamlined by computational and artificial intelligence methods to analyze more variables, especially under non-linear, multivariable

conditions, more quickly than ever before. Optimization is an important tool for decision science and for the analysis of physical systems used in engineering. Nonlinear Parameter Optimization with R explores the principal tools available in R for function minimization, optimization, and nonlinear parameter determination and features numerous examples throughout. Nonlinear Parameter Optimization with R: Provides a comprehensive treatment of optimization techniques Examines optimization problems that arise in statistics and how to solve them using R Enables researchers and practitioners to solve parameter determination problems Presents traditional methods as well as recent developments in R Is supported by an accompanying website featuring R code, examples and datasets Researchers and practitioners who have to solve parameter determination problems who are users of R but are novices in the field optimization or function minimization will benefit from this book. It will also be useful for scientists building and estimating nonlinear models in various fields such as hydrology, sports forecasting, ecology, chemical engineering, pharmaco-kinetics, agriculture, economics and statistics.

This book teaches the fundamentals of CNC machining. Topics include safety, CNC tools, cutting speeds and feeds, coordinate systems, G-codes, 2D, 3D and Turning toolpaths and CNC setups and operation. Emphasis is on using best practices as related to modern CNC and CAD/CAM. This book is particularly well-suited to persons using CNC that do not have a traditional machining background.

- The data gathered can be used to solve a wide range of problems - for basic science and applied science

All users of the IET Wiring Regulations need to be aware of the coming changes in Amendment No. 3 to the 17th Edition (BS 7671:2008+A3:2015). Amendment No. 3 publishes on 5 January and comes into effect on 1 July 2015. All new installations from this point must comply with Amendment 3 BS 7671:2008. Potentially lifesaving changes are proposed making this a vital update. These changes are expected to include (but are not limited to) amendments in the following areas: \* Consumer Units (to come into effect January 2016) \* Wiring in escape routes \* Changes to earth fault loop impedances for all protective devices \* Updated EIC and EICR forms \* Changes to definitions throughout the Regulations

Plunkett's Companion to the Almanac of American Employers 2009 Mid-Size Firms Plunkett Research, Ltd.

Organic agriculture world-wide allows farmers to produce healthy food with low levels of external inputs, and often shortens the value chains, giving farmers a higher share of the consumer dollar. This book reports on long-term comparative organic farming systems research trials carried out over the last four years in South Africa's Southern Cape, as well as research on the organic sector and the technical tools it requires in South Africa, Zambia, Uganda and Tanzania. The trials show how the yield gap between organic and conventional crops was closed over 3 years. Water use efficiency

was also greater in the organic farming system, and pests and diseases were effectively controlled using biological products. Farmer training approaches, soil carbon analysis, participatory guarantee systems, the Zambian organic farming sector (agronomy) and Ugandan organic farmer training support, and a sector plan for southern African organic farming are examined.

Understanding Physiotherapy Research by Littlewood and May is an introductory level text that aims to be accessible and understandable to all physiotherapists who appreciate the need to integrate research evidence into their practice. The requirement for physiotherapists to engage with evidence-based practice has never been more apparent and the benefits of such an approach are clear. Evidence derived from research is a cornerstone of evidence-based practice, but before such evidence can be incorporated into an evidence-based paradigm, it should be appraised and its trustworthiness and applicability considered. This means that evidence-based physiotherapy practitioners need to be aware of the inherent strengths and limitations of research studies and what these mean for their practice. However, this is not always a straightforward process and it is not uncommon for both novice and experienced physiotherapists to become lost in the language of research. To facilitate the evolution of evidence-based physiotherapy practice, this book aims to bridge the gap by presenting a clinically focused range of methodological discussions in relation to specific research study designs in physiotherapy. The intention of the book is to offer a platform upon which readers can develop their understanding of meaningful critical appraisal and consequently gain confidence when reading published research.

The Latest Linux Security Solutions This authoritative guide will help you secure your Linux network--whether you use Linux as a desktop OS, for Internet services, for telecommunications, or for wireless services. Completely rewritten the ISECOM way, Hacking Exposed Linux, Third Edition provides the most up-to-date coverage available from a large team of topic-focused experts. The book is based on the latest ISECOM security research and shows you, in full detail, how to lock out intruders and defend your Linux systems against catastrophic attacks. Secure Linux by using attacks and countermeasures from the latest OSSTMM research Follow attack techniques of PSTN, ISDN, and PSDN over Linux Harden VoIP, Bluetooth, RF, RFID, and IR devices on Linux Block Linux signal jamming, cloning, and eavesdropping attacks Apply Trusted Computing and cryptography tools for your best defense Fix vulnerabilities in DNS, SMTP, and Web 2.0 services Prevent SPAM, Trojan, phishing, DoS, and DDoS exploits Find and repair errors in C code with static analysis and Hoare Logic

This guide is intended to enable the competent electrician to deal with small installations (up to 100 A, 3-phase). It provides essential information in an easy-to-use form, avoiding the need for detailed calculations.

Decision Analysis for Management Judgment is unique in its breadth of coverage of decision analysis methods. It covers both the psychological problems that are associated with unaided managerial decision making and the decision analysis methods designed to overcome them. It is presented and explained in a clear, straightforward manner without using mathematical notation. This latest edition has been fully revised and updated and includes a number of changes to reflect the latest developments in the field.

Finally – A Networking Book for Introverts! The sequel to Pollard's international

bestseller *The Introvert's Edge: How the Quiet and Shy Can Outsell Anyone*, selected by BookAuthority as the #2 "Best Introvert Book of All Time" and listed by HubSpot as one of the "Most Highly-Rated Sales Books of All Time." Introverts across the world have been sold a lie: One of the biggest myths that plagues the business world today is that our ability to network depends on having the "gift-of-gab." This is nonsense. You don't have to be outgoing to be successful at networking. You don't have to become a relentless self-promoter. In fact, you don't have to act like an extrovert at all. The truth is, introverts make the best networkers . . . when armed with a plan that lets them be their authentic selves. Matthew Pollard, an introvert himself, draws on over a decade of research and real-world examples to provide an actionable blueprint for introverted networking. In this paradigm-shifting book, you'll discover how to: Overcome your fear and discomfort when networking Turn networking into a repeatable system Leverage your innate introverted strengths Target and connect with top influencers Leverage the power of virtual and social networking Whether you're a small business owner struggling to make a living or a professional who's hit a career plateau, *The Introvert's Edge to Networking* is your path to a higher income and a rolodex of powerful connections.

This book provides an account of the classical and recent trends in plant sciences, which have contributed for disease management strategies in plants for sustainable agriculture. Advancements in the disciplines of biological sciences like biotechnology, microbiology, bioinformatics as well as information and communication technology etc has given the new dimensions for the development of new plant disease management strategies. By keeping this perspective in view, the editors collected and compiled the useful, practical and recent information regarding plant disease management from a diverse group of authors from different countries associated with well-reputed scientific, teaching and research organizations with the objective to update and equip the researchers with comprehensive and latest knowledge of plant disease management. This book is based on the knowledge of traditional and modern approaches for plant disease management. It has 15 chapters, each chapter describing the pillar strategies, which may be the possible way for crop protection from diseases. This effort deals with the history and recent trends in plant disease control, plant genetics and physiology in disease prognosis, conventional plant breeding program for disease resistance, synthetic chemicals: major component of plant disease management, biological antagonism: expected safe and sustainable way to manage plant diseases , soil microbes and plant health, conventional and modern technologies for the management of post-harvest diseases, nanobiotechnology, an innovative plant disease management approach, transgenic approaches in plants: strategic control for disease management, exploiting RNAi mechanism in plants for disease resistance, genome editing technologies for resistance against phytopathogens: principles, applications and future prospects, plant health clinics in Pakistan: operations and prospects, precision agriculture technologies for management of plant disease, quarantine and regulations and development and implementation of IDM program for annual and perennial crops. PIID is conveniently divided into three easy-access sections: Geographical and ISBN sections provide complete contact information for each publisher, while an Alphabetical Index identifies the publisher's location. (Handbook of International Documentation and Information, Vol. 7)

Plunkett's Companion to the Almanac of American Employers is the perfect complement to the highly-regarded main volume of The Almanac of American Employers. This mid-size firms companion book covers employers of all types from 100 to 2,500 employees in size (while the main volume covers companies of 2,500 or more employees). No other source provides this book's easy-to-understand comparisons of growth, corporate culture, salaries, benefits, pension plans and profit sharing at mid-size corporations. The book contains profiles of highly successful companies that are of vital importance to job-seekers of all types. It also enables readers to readily compare the growth potential and benefit plans of large employers. You'll see the financial record of each firm, along with the impact of earnings, sales and growth plans on each company's potential to provide a lucrative and lasting employment opportunity. Nearly five hundred of the most successful mid-size corporate employers in America are analyzed in this book. Tens of thousands of pieces of information, gathered from a wide variety of sources, have been researched for each corporation and are presented here in a unique form that can be easily understood by job seekers of all types. Purchasers of either the book or PDF version can receive a free copy of the company profiles database on CD-ROM, enabling export of company names, human resources contacts, and addresses for mail merge and other uses.

Social and emotional skills children need.

The integration of the 3rd dimension in the production of spatial representation is largely recognized as a valuable approach to comprehend our reality, that is 3D. During the last decade developments in 3D Geoinformation (GI) system have made substantial progress. We are about to have a more complete spatial model and understanding of our planet in different scales. Hence, various communities and cities offer 3D landscape and 3D city models as valuable source and instrument for sustainable management of rural and urban resources. Also municipal utilities, real estate companies benefit from recent developments related to 3D applications. In order to present recent developments and to discuss future trends, academics and practitioners met at the 7th International Workshop on 3D Geoinformation. This book comprises a selection of evaluated, high quality papers that were presented at this workshop in May 2012. The topics focus explicitly on the last achievements (methods, algorithms, models, systems) with respect to 3D Geoinformation requirements. The book is aimed at decision makers and experts as well at students interested in the 3D component of geographical information science including GI engineers, computer scientists, photogrammetrists, land surveyors, urban planners, and mapping specialists.

This first comprehensive book to cover this exciting field also deals with the biological aspects, such as enzymes with iron. Following an introduction, this handy reference and handbook goes on to deal with reductions, oxidations of C, H- and C=C bonds, oxidative allylic oxygenation and amination, the oxidation of heteroatoms, cross coupling reactions, aromatic and nucleophilic substitutions, addition to carbonyl compounds, and cyclisations as well as ring opening reactions. The chapters are clearly classified according to the reaction type, allowing readers to quickly locate the desired information.

This text does for reporting what Tim Harrower's The Newspaper Designer's Handbook has previously done for design: make it fun and accessible to newcomers. Harrower is an award-winning editor, designer and columnist who has previously taught at Portland

State University and currently conducts journalism workshops. The second edition of Inside Reporting continues to emphasize the basics but also provides a wealth of information on online reporting and packaging stories in more visual, interactive ways. It also includes more useful information on feature writing--from stories to reviews and column-writing--than any other text in the field.

Free energy constitutes the most important thermodynamic quantity to understand how chemical species recognize each other, associate or react. Examples of problems in which knowledge of the underlying free energy behaviour is required, include conformational equilibria and molecular association, partitioning between immiscible liquids, receptor-drug interaction, protein-protein and protein-DNA association, and protein stability. This volume sets out to present a coherent and comprehensive account of the concepts that underlie different approaches devised for the determination of free energies. The reader will gain the necessary insight into the theoretical and computational foundations of the subject and will be presented with relevant applications from molecular-level modelling and simulations of chemical and biological systems. Both formally accurate and approximate methods are covered using both classical and quantum mechanical descriptions. A central theme of the book is that the wide variety of free energy calculation techniques available today can be understood as different implementations of a few basic principles. The book is aimed at a broad readership of graduate students and researchers having a background in chemistry, physics, engineering and physical biology.

Nontechnical survey helps improve ability to judge statistical evidence and to make better-informed decisions. Discusses common pitfalls: unrealistic estimates, improper comparisons, premature conclusions, and faulty thinking about probability. 1974 edition.

Juan I. Padrón and Víctor S. Martín: Catalysis by means of Fe-based Lewis acids; Hiroshi Nakazawa\*, Masumi Itazaki: Fe-H Complexes in Catalysis; Kristin Schröder, Kathrin Junge, Bianca Bitterlich, and Matthias Beller: Fe-catalyzed Oxidation Reactions of Olefins, Alkanes and Alcohols: Involvement of Oxo- and Peroxo Complexes; Chi-Ming Che, Cong-Ying Zhou, Ella Lai-Ming Wong: Catalysis by Fe=X Complexes (X=NR, CR<sub>2</sub>); René Peters, Daniel F. Fischer and Sascha Jautze: Ferrocene and Half Sandwich Complexes as Catalysts with Iron Participation; Markus Jegelka, Bernd Plietker: Catalysis by Means of Complex Ferrates.

Whether you want to automate tasks, analyze data, parse logs, talk to network services, or address other systems requirements, writing your own command-line tool may be the fastest - and perhaps the most fun - way to do it. The Go programming language is a great choice for developing tools that are fast, reliable, and cross-platform. Create command-line tools that work with files, connect to services, and even manage external processes, all while using tests and benchmarks to ensure your programs are fast and correct. When you want to develop cross platform command-line tools that are fast and reliable, use Go, a modern programming language that combines the reliability of compiled languages with the ease of use and flexibility of dynamic typed languages. Work through practical examples to develop elegant and efficient tools by applying Go's rich standard library, its built in support for concurrency, and its expressive syntax. Use Go's integrated testing capabilities to automatically test your tools, ensuring they work reliably even across code refactoring. Develop CLI tools that interact with your users by using common input/output patterns, including environment variables and flags. Handle files to read or persist data, and manipulate paths consistently in cross-platform scenarios. Control processes and handle signals, and use a benchmark driven approach and Go's concurrency primitives to create tools that perform well. Use powerful external libraries such as Cobra to create modern and flexible tools that handle subcommands, and develop

tools that interact with databases, APIs, and network services. Finally, leverage what you learned by tackling additional challenges at the end of each chapter. What You Need: Go 1.8 or higher, an internet connection to download the example files and additional libraries, and a text editor to write your programs.

Ultrasound Tomography is an emerging technology for medical imaging that is quickly approaching its clinical utility. Research groups around the globe are engaged in research spanning from theory to practical applications. The International Workshop on Medical Ultrasound Tomography 2019 brought together scientists to exchange their knowledge and discuss new ideas and results in order to boost the research in Ultrasound Tomography. Unlike most texts in differential equations, this textbook gives an early presentation of the Laplace transform, which is then used to motivate and develop many of the remaining differential equation concepts for which it is particularly well suited. For example, the standard solution methods for constant coefficient linear differential equations are immediate and simplified, and solution methods for constant coefficient systems are streamlined. By introducing the Laplace transform early in the text, students become proficient in its use while at the same time learning the standard topics in differential equations. The text also includes proofs of several important theorems that are not usually given in introductory texts. These include a proof of the injectivity of the Laplace transform and a proof of the existence and uniqueness theorem for linear constant coefficient differential equations. Along with its unique traits, this text contains all the topics needed for a standard three- or four-hour, sophomore-level differential equations course for students majoring in science or engineering. These topics include: first order differential equations, general linear differential equations with constant coefficients, second order linear differential equations with variable coefficients, power series methods, and linear systems of differential equations. It is assumed that the reader has had the equivalent of a one-year course in college calculus.

Veteran music journalist Rick Clark conducted hundreds of revealing interviews with some of the biggest names in the industry to create this extraordinary title. Tony Visconti, Danny Elfman, Eddy Offord, Trevor Rabin and Roy Thomas Baker are just a few of the contributors who share their special studio practices, tips, and anecdotes. A truly thorough look at the recording world, this in-depth reference guide covers everything from recording strings and horn sections to using creative production techniques on the latest musical styles. Candid interviews with expert tips will enlighten you with the knowledge that has led the featured producers, engineers and composers to huge industry successes and millions of record sales. This useful and entertaining information is organized by subject matter rather than by the celebrity so you can gain various expert advice on the topic you want to know about, and not about the personality you are learning from. All of this combined into one reasonably priced package makes for a truly definitive guide for any producers and engineers of audio productions who want the advice, opinions, tricks and techniques used by the leading experts in the field. This completely updated edition features many new interviews, fresh content from some of the previous interviews, and a new section on live sound reinforcement.

This book sums up key research findings, and theoretical and technological advances having a direct bearing on neuroergonomics. Neuroergonomics is an emerging area whose Neuroergonomics is an emerging area that is collectively defined as the study of human brain function and behaviour in relation to behavioural performance in natural environments and everyday settings. It helps readers to understand neural mechanisms of human cognition in the context of human interaction with complex systems, as well as understanding the change of perception, decision-making and training in humans. The authors give new insights into augmenting human performance, reflecting upon the opportunities provided through neuroergonomics research and development. Computer systems acting on data from behavioural-output, physiological, and neurological sensing technologies are used to

determine the user's cognitive state and adapt the systems to change, support, and monitor human cognition. Various domains and case studies delve into the field of neuroergonomics in detail. These include, but are not limited to: an evaluation of technologies in health, workplace, and education settings, to show the different impacts of neuroergonomics in everyday lives; assessment of real-time cognitive measures; dynamic casual interactions between inhibition and updating functions, through analysis of behavioral, neurophysiological and effective connectivity metrics; and applications in human performance modelling and assessment of mental workload, showing the reader how to train and improve working memory capacity. *Neuroergonomics: Principles and Practice* provides academic practitioners and graduate students with a single go-to handbook that will be of significant assistance in research associated with human factors and ergonomics, human-computer interaction, human-systems engineering and cognitive neuroscience.

Become more culturally competent in an increasingly diverse world Recent years have seen dramatic changes to several institutions worldwide. Our increasingly interconnected, digitized, and globalized world presents immense opportunities and unique challenges. Modern businesses and schools interact with individuals and organizations from a diverse range of cultural and national backgrounds—increasing the likelihood for miscommunication, errors in strategy, and unintended consequences in the process. This has also spilled into our daily lives and the way we consume information today. Understanding how to navigate these and other pitfalls requires adaptability, nuanced cross-cultural communication, and effective conflict resolution. *Use Your Difference to Make a Difference* provides readers with a skills-based, actionable plan that transforms differences into agents of inclusiveness, connection, and mutual understanding. This innovative and timely guide illustrates how to leverage differences to move beyond unconscious biases, manage a culturally-diverse workplace, create an environment for more tolerant schooling environments, more trusted media, communicate across borders, find and retain diverse talent, and bridge the gap between working locally and expanding globally. Expert guidance on a comprehensive range of topics—teamwork, leadership styles, information sharing, delegation, supervision, giving and receiving feedback, coaching and motivation, recruiting, managing suppliers and customers, and more—helps you manage the essential aspects of international relationships and cultural awareness. This valuable resource contains the indispensable knowledge required to: Develop self-awareness needed to be a cross-cultural communicator Develop content, messaging techniques, marketing plans, and business strategies that translate across cultural borders Help your employees to better understand and collaborate with clients and colleagues from different backgrounds Help teachers build safe environments for students to be themselves Strengthen cross-cultural competencies in yourself, your team, and your entire organization Understand the cultural, economic, and political factors surrounding our world *Use Your Difference to Make a Difference* is a must-have resource for any educator, parent, leader, manager, or team member of an organization that interacts with co-workers and customers from diverse cultural backgrounds.

Taxonomy; Variation in Botrytis and Botryotinia; Formation, structure and germination of Conidia; Sclerotia and other structures in survival; Behaviour of Conidia on aerial plant surface; The infection process and host-pathogen interactions; Mechanisms of Resistance to Botrytis; Epidemiology; Botrytis cinerea in Enology; Disease Control. Detailed characterization of fuzzy interactions will be of central importance for



understanding the diverse biological functions of intrinsically disordered proteins in complex eukaryotic signaling networks. In this volume, Peter Tompa and Monika Fuxreiter have assembled a series of papers that address the issue of fuzziness in molecular interactions. These papers provide a broad overview of the phenomenon of fuzziness and provide compelling examples of the central role played by fuzzy interactions in regulation of cellular signaling processes and in viral infectivity. These contributions summarize the current state of knowledge in this new field and will undoubtedly stimulate future research that will further advance our understanding of fuzziness and its role in biomolecular interactions.

Multidimensional scaling (MDS) is a technique for the analysis of similarity or dissimilarity data on a set of objects. Such data may be intercorrelations of test items, ratings of similarity on political candidates, or trade indices for a set of countries. MDS attempts to model such data as distances among points in a geometric space. The main reason for doing this is that one wants a graphical display of the structure of the data, one that is much easier to understand than an array of numbers and, moreover, one that displays the essential information in the data, smoothing out noise. There are numerous varieties of MDS. Some facets for distinguishing among them are the particular type of geometry into which one wants to map the data, the mapping function, the algorithms used to find an optimal data representation, the treatment of statistical error in the models, or the possibility to represent not just one but several similarity matrices at the same time. Other facets relate to the different purposes for which MDS has been used, to various ways of looking at or "interpreting" an MDS representation, or to differences in the data required for the particular models. In this book, we give a fairly comprehensive presentation of MDS. For the reader with applied interests only, the first six chapters of Part I should be sufficient. They explain the basic notions of ordinary MDS, with an emphasis on how MDS can be helpful in answering substantive questions.

The IET Wiring Regulations are of interest to all those concerned with the design, installation and maintenance of electric wiring in buildings. The market includes electricians, electrical contractors, consultants, local authorities, surveyors and architects. This book will also be of interest to professional engineers, as well as students at university and further education colleges. All users of the IET Wiring Regulations need to be aware of the coming changes in the 18th Edition (BS 7671:2018). This is intended to come into effect on 1st January 2019, although industry needs to start preparing for this from its point of publication (2nd July 2018).

"Structural Control" remains a crucial point that frequently lacks in any scientific and/or economic analysis of ore deposits, whatever their type and class. The case of lode deposits is exemplary, although also other deposits, like breccia pipe, stockwerk, massive sulphides, skarn, etc., can, surprisingly, be concerned. Several concepts like the gold-bearing shear zone have not proven valid during the last few decades in terms of our understanding of gold deposit and have been totally abandoned. Additionally, the relationships between magmatism, regional tectonic context, and mineralization remain uncertain and have been debated in several recent publications. This demonstrates that this issue is still relevant, and its solution may help in the distinction between intrusion-related and orogenic deposits. In this Special Issue, we particularly invite any case study of mineral deposits, in which it has been demonstrated that structural geology

may have a significant role in the establishment of the deposit model of formation and/or on exploration and exploitation programs. Examples in which the structural model diverges from those described in the classical literature are particularly welcomed, including studies in which relationships with magmatism can be suspected and/or demonstrated. Indeed, all cases that illustrate concepts that differ from the classic ones and from theoretical models may represent significant contributions to this volume.

This book is the result of the work of the first international congress of the ArabGU (Arabian Geosciences Union) which took place in Algiers (Algeria) in February 2016. It presents research articles and review papers on geology of the North Africa and Arabian Middle East . It provides information to the public on various fields of earth sciences and encourages further research in this field in order to attract an international audience.

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