

## A K Gupta Classes

Offers information on entrance and degree requirements, expenses and financial aid, programs of study, and faculty research specialties.

This volume contains a selection of revised and extended research articles written by prominent researchers participating in a large international conference on Advances in Engineering Technologies and Physical Science which was held in San Francisco, California, USA, October 25-27, 2017. Topics covered include engineering mathematics, electrical engineering, communications systems, computer science, chemical engineering, systems engineering, manufacturing engineering, and industrial applications. With contributions carefully chosen to represent the most cutting-edge research presented during the conference, the book contains some of the state-of-the-art in engineering technologies and the physical sciences and their applications, and serves as a useful reference for researchers and graduate students working in these fields.

The spectacular victory of Narendra Modi and the BJP in 2014 and again in 2019 demands a nuanced exploration of the factors that led to it. Though the role of the middle class and the media in the making of what is called the 'Modi Wave' is often talked about, a clear-eyed and unbiased look at how they transformed the political landscape in post-liberalization India is still wanting. This book studies how the Indian middle class, once seen as politically indifferent, has gradually become a player of importance. This change, which slowly began in the 1990s, has now reached a crescendo, and Modi has become the icon of the changing economic demands of the middle class and their ideological rightward shift. The new middle class played a decisive role in the electoral outcomes of 2014 and 2019—two elections that have undoubtedly changed the way India imagines itself and how the rest of the world sees India. Modi's management of mainstream and social media—primary consumers of which is the ever-growing middle class—has played a key role in his emphatic victories. This book will help the reader understand the arsenal that Modi used in these elections and is a must-read for scholars of politics, media studies and sociology.

A Half-Century of Indian Higher Education features a select collection of writings on Indian higher education by Professor Philip G. Altbach. Professor Altbach's research papers and articles on Indian higher education—published in journals, periodicals, newspapers and books worldwide—not only established him as a noted expert on Indian higher education but also inspired numerous studies in this area. This volume, edited by Pawan Agarwal, brings together 34 seminal writings of Professor Altbach on universities and colleges, knowledge production and distribution, academic profession, globalization and open-door policies, academic publishing, campus politics and comparative studies on Indian and Chinese systems. The articles provide an invaluable access to the various issues that have profoundly shaped India's higher education system during the last five decades. They give a comprehensive reading of the development of higher

education in post-Independence India in a simple yet gripping style and affirm Professor Altbach's enduring commitment to this area. The book includes in-depth reflective articles for each of its seven sections by well-known experts on higher education. It also features an insightful interview with Professor Altbach that illuminates many vital areas of higher education worldwide.

China and India are becoming increasingly influential, powerful and prominent countries – but what kind of states do their leaders and people wish them to become? Will they act and behave like major Western entities or like something altogether different, hence changing the very nature of international affairs? And as the Asian twenty– first century takes shape, how will these dynamics affect the wider geopolitical landscape and the balance of power? In this in–depth study, Chris Ogden evaluates the prospective impact of China and India upon the definition and nature of great power in the contemporary world. Whilst many contend that they will rise in a similar way to current and previous great powers – namely via traditional material, economic and military measures – Ogden explores the extent to which domestic political and cultural values as well as historical identities and perceptions are also central driving forces behind their common status, ambitions and worldviews. In so doing, he offers a new and comprehensive analysis of these two countries' past, contemporary and future global significance, in particular their shared status as the world's first such post–imperial great powers.

This book explores the meanings and complexities of India's experience of transition from colonial to the post-colonial period. It focuses on the first five years – from independence on 15th August 1947 to the first general election in January 1952 – in the politics of West Bengal, the new Indian province that was created as a result of the Partition. The author, a specialist on the history of modern India, discusses what freedom actually meant to various individuals, communities and political parties, how they responded to it, how they extended its meaning and how in their anxiety to confront the realities of free India, they began to invent new enemies of their newly acquired freedom. By emphasising the representations of popular mentality rather than the institutional changes brought in by the process of decolonization, he draws attention to other concerns and anxieties that were related to the problems of coming to terms with the newly achieved freedom and the responsibility of devising independent rules of governance that would suit the historic needs of a pluralist nation. Decolonization in South Asia analyses the transitional politics of West Bengal in light of recent developments in postcolonial theory on nationalism, treating the 'nation' as a space for contestation, rather than a natural breeding ground for homogeneity in the complex political scenario of post-independence India. It will appeal to academics interested in political science, sociology, social anthropology and cultural and Asian studies.

VALUES & ETHICS: ACT AS LIGHTHOUSE PROFESSIONALISM: TAKES US PLACES LEADERSHIP: TESTS US EVERYTIME MANAGEMENT: HELPS US

## WHEN IN DILEMNA AFFILIATIONS: GIVE US THAT EXTRA BIT HUMOUR: MAKES US TAKE LIFE EASY DUAL CONTROL: WE FACE EVERYDAY

With an emphasis on models and techniques, this textbook introduces many of the fundamental concepts of stochastic modeling that are now a vital component of almost every scientific investigation. In particular, emphasis is placed on laying the foundation for solving problems in reliability, insurance, finance, and credit risk. The material has been carefully selected to cover the basic concepts and techniques on each topic, making this an ideal introductory gateway to more advanced learning. With exercises and solutions to selected problems accompanying each chapter, this textbook is for a wide audience including advanced undergraduate and beginning-level graduate students, researchers, and practitioners in mathematics, statistics, engineering, and economics.

Contemporary Perspectives on Ophthalmology is a specialty text targeting all learners of modern-day ophthalmology, particularly who are making the first steps in the discovery of this vibrant branch of medicine after completing their general medicine course as undergraduates. Contemporary Ophthalmology as a branch of medicine has grown to enormous magnitudes in the last decade. Hence the students need a comprehensive compilation detailing the updates in the subject for easy and quick perusal before their examination. The current edition is completely redesigned, and many chapters are rewritten in order to make it relevant. Some of the key features include: Wide and comprehensive coverage of updated topics in all specialties of ophthalmology. Succinct and focused format for quick reading and understanding. Key updates on evolving topics such as refractive surgery, ocular therapeutics, stem cells and corneal surgery, advances in cataract surgery, glaucoma investigations and treatment, uveal disorders, retinal surgery, oculoplastic procedures and ocular trauma. Enhanced emphasis on diagnosis of ocular disorders and investigations. A chapter on community ophthalmology. A new chapter on statistics for core understanding required for research techniques. Many illustrations and artworks for better elucidation of key concepts. Videos on selected topics. This book is one out of 8 IAEG XII Congress volumes, and deals with Landslide processes, including: field data and monitoring techniques, prediction and forecasting of landslide occurrence, regional landslide inventories and dating studies, modeling of slope instabilities and secondary hazards (e.g. impulse waves and landslide-induced tsunamis, landslide dam failures and breaching), hazard and risk assessment, earthquake and rainfall induced landslides, instabilities of volcanic edifices, remedial works and mitigation measures, development of innovative stabilization techniques and applicability to specific engineering geological conditions, use of geophysical techniques for landslide characterization and investigation of triggering mechanisms. Focuses is given to innovative techniques, well documented case studies in different environments, critical components of engineering geological and geotechnical investigations, hydrological and hydrogeological investigations, remote sensing and geophysical techniques, modeling of triggering, collapse, run out and landslide reactivation, geotechnical design and construction procedures in landslide zones, interaction of landslides with structures and infrastructures and possibility of domino effects. The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15-19, 2014, analyze the dynamic role of engineering geology in our changing world and build on the four main themes of the congress: environment, processes, issues, and approaches. The congress topics and subject areas of the 8 IAEG XII Congress volumes are: Climate Change and Engineering Geology. Landslide Processes. River Basins, Reservoir Sedimentation and Water Resources. Marine and Coastal Processes. Urban Geology, Sustainable Planning and Landscape Exploitation. Applied Geology for Major Engineering Projects. Education, Professional Ethics and Public Recognition of Engineering Geology. Preservation of Cultural Heritage.

The purpose of this book is to present an introduction to the multidisciplinary field of

automation and robotics for industrial applications. The companion files include numerous video tutorial projects and a chapter on the history and modern applications of robotics. The book initially covers the important concepts of hydraulics and pneumatics and how they are used for automation in an industrial setting. It then moves to a discussion of circuits and using them in hydraulic, pneumatic, and fluidic design. The latter part of the book deals with electric and electronic controls in automation and final chapters are devoted to robotics, robotic programming, and applications of robotics in industry. eBook Customers: Companion files are available for downloading with order number/proof of purchase by writing to the publisher at [info@merclearning.com](mailto:info@merclearning.com). Features: \* Begins with introductory concepts on automation, hydraulics, and pneumatics \* Covers sensors, PLC's, microprocessors, transfer devices and feeders, robotic sensors, robotic grippers, and robot programming

Conventional services, such as water, energy and waste services, have been for a long time physically networked and centrally managed. Today, this delivery model appears increasingly inefficient in two respects. It often fails in guaranteeing its financial viability and equitable service access, and it generally draws heavily on the natural resources conveyed by these services. The book aims thus at exploring how service coproduction, based on public-community collaborations, can represent a valuable alternative to the conventional service provision model. Contributions in this book look into service coproduction and its relationship with the conventional service model both in the Global North (Germany) and Global South (Bolivia, Brazil, Colombia, India, Tanzania). They also address a variety of different perspectives in coproducing conventional services, such as the role of service modernisation, the variety of non-networked solutions, the relationship with the commons, just to cite some of them. Eventually, this book provides a first comprehensive exploration of the service coproduction theory in relation to conventional services, such as water, energy and waste. The chapters originally published as a special issue in *Urban Research & Practice*.

Many new developments have taken place in ophthalmology since the publication of the last edition. It therefore became mandatory to revise and update the present edition. To accomplish this many new chapters have been added and the existing ones revised. Thoroughly revised and updated chapters Recent Advances in Lamellar Keratoplasty Principles of Molecular Genetics Intraocular Tumours Recent Advances in Oculoplastic Surgery Ophthalmic Electrodiagnostic Techniques Ultrasonography in Ophthalmology Ocular Coherence Tomography Anterior Segment Trauma Corneal Topography and Wavefront Sensing Since the coinage of the term by scientist H Christopher Longuet-Higgins in 1973, Cognitive Science has become a fast growing field of study worldwide, comprising cross-linkages of disciplines like psychology, neuroscience, computer science, linguistics and philosophy. With contributions from eminent scientists from around the globe, *Advances in Cognitive Science: Volume 1* covers various sub-disciplines of this study area like Cognitive Processes, Cognitive Neuroscience, Computational Modeling, Cognitive Development and Intervention, Culture and Cognition, and Consciousness. The often neglected issues of culture and cognition, and consciousness are also discussed in detail. The book presents recent findings and current challenges in the all these areas and also highlights the current trends in the major sub-disciplines. It will be invaluable for researchers, faculty, students and scientists working in the field of Cognitive Science.

*Stroke: New Insights for the Healthcare Professional: 2011 Edition* is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Stroke. The editors have built *Stroke: New Insights for the Healthcare Professional: 2011 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Stroke in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Stroke: New Insights for the Healthcare Professional: 2011 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/>.

Articles on nationalism and freedom movement in India, with reference to Bihar, during 1920-1922.

Steven Finch provides 136 essays, each devoted to a mathematical constant or a class of constants, from the well known to the highly exotic. This book is helpful both to readers seeking information about a specific constant, and to readers who desire a panoramic view of all constants coming from a particular field, for example, combinatorial enumeration or geometric optimization. Unsolved problems appear virtually everywhere as well. This work represents an outstanding scholarly attempt to bring together all significant mathematical constants in one place.

Presenting a new approach towards the social history of working classes in the imperial context, this book looks at the formation of working classes in Scotland and Bengal. It analyses the trajectory of labour market formation, labour supervision, cultures of labour and class formation between two regional economies – one in an imperial country and the other in a colonial one. The book examines the everyday lives of the jute workers of the imperial nexus, and the impact of the 'Dundee School' of Scottish mechanics, engineers and managers who ran the Calcutta jute industry. It goes on to challenge existing theories of imperialism, class formation and class struggle – particularly those that underline the exceptional nature of the Indian experience of industrialization - and demonstrates how and why Empire was able to provide an opportunity to test and perfect ways of controlling the lower classes of Dundee. These historical debates have a continued relevance as we observe the impact of globalization and rapid industrialization in the so-called developing world and the accompanying changes in many areas of the developed world marked by de-industrialization. The book is of use to scholars of imperial history, labour history, British history and South Asian history.

A comprehensive, must-have handbook of matrix methods with a unique emphasis on statistical applications This timely book, *A Matrix Handbook for Statisticians*, provides a comprehensive, encyclopedic treatment of matrices as they relate to both statistical concepts and methodologies. Written by an experienced authority on matrices and statistical theory, this handbook is organized by topic rather than mathematical developments and includes numerous references to both the theory behind the methods and the applications of the methods. A uniform approach is applied to each chapter, which contains four parts: a definition followed by a list of results; a short list of references to related topics in the book; one or more references to proofs; and references to applications. The use of extensive cross-referencing to topics within the book and external referencing to proofs allows for definitions to be located easily as well as interrelationships among subject areas to be recognized. *A Matrix Handbook for Statisticians* addresses the need for matrix theory topics to be presented together in one book and features a collection of topics not found elsewhere under one cover. These topics include: Complex matrices A wide range of special matrices and their properties Special products and operators, such as the Kronecker product Partitioned and patterned matrices Matrix analysis and approximation Matrix optimization Majorization Random vectors and matrices Inequalities, such as probabilistic inequalities Additional topics, such as rank, eigenvalues, determinants, norms, generalized inverses, linear and quadratic equations, differentiation, and Jacobians, are also included. The book assumes a fundamental knowledge of vectors and matrices, maintains a reasonable level of abstraction when appropriate, and provides a comprehensive compendium of linear algebra results with use or potential use in statistics. *A Matrix Handbook for Statisticians* is an essential, one-of-a-kind book for graduate-

level courses in advanced statistical studies including linear and nonlinear models, multivariate analysis, and statistical computing. It also serves as an excellent self-study guide for statistical researchers.

Useful in physics, economics, psychology, and other fields, random matrices play an important role in the study of multivariate statistical methods. Until now, however, most of the material on random matrices could only be found scattered in various statistical journals. Matrix Variate Distributions gathers and systematically presents most of the recent developments in continuous matrix variate distribution theory and includes new results. After a review of the essential background material, the authors investigate the range of matrix variate distributions, including: matrix variate normal distribution Wishart distribution Matrix variate t-distribution Matrix variate beta distribution F-distribution Matrix variate Dirichlet distribution Matrix quadratic forms With its inclusion of new results, Matrix Variate Distributions promises to stimulate further research and help advance the field of multivariate statistical analysis. The first major study of the relationship between labour and capital in India's economic development in the early twentieth-century. The author considers the spread of capitalism and the growth of the cotton textile industry.

Students in both social and natural sciences often seek regression methods to explain the frequency of events, such as visits to a doctor, auto accidents, or new patents awarded. This book, now in its second edition, provides the most comprehensive and up-to-date account of models and methods to interpret such data. The authors combine theory and practice to make sophisticated methods of analysis accessible to researchers and practitioners working with widely different types of data and software in areas such as applied statistics, econometrics, marketing, operations research, actuarial studies, demography, biostatistics and quantitative social sciences. The new material includes new theoretical topics, an updated and expanded treatment of cross-section models, coverage of bootstrap-based and simulation-based inference, expanded treatment of time series, multivariate and panel data, expanded treatment of endogenous regressors, coverage of quantile count regression, and a new chapter on Bayesian methods. Natural disasters make dramatic reading. Every year, some area of the world is devastated by a disaster, with enormous consequent loss of life and disruption to livelihoods. What can be done to alleviate this? Why are such disasters so lethal? Why do people expose themselves to such hazards? Do mitigation programmes help? What effect does aid really have on the areas that receive it? By examining one particular cyclone-prone area of Southern India in great detail over a 10-year period Peter Winchester has come up with some perceptive answers to the questions. In particular, he formulates a set of five 'golden rules' for disaster management. The book will provide valuable and thought-provoking reading for anyone involved with disaster management, and will be essential for all those whose work involves aid or development in disaster-prone areas.

Middle Class, Media and ModiThe Making of a New Electoral PoliticsSAGE Publishing India

`Based on meticulous research in India and Britain, including interviews with leading participants. The Introduction, in particular, provides a very useful summary of recent research on the historic economic relationship between India

and the United Kingdom.... This volume should be of interest to a wide readership' - The Economic History Review This book describes and analyzes the emergence and evolution of the Indian capitalist class and its relationship with imperialism and nationalism. It also provides a comprehensive economic history of colonial India in the first half of the 20th century. Based on extensive empirical data, this is the first detailed, thoroughly researched and comprehensive account of the position of the Indian capitalist class.

Mathematical programming has known a spectacular diversification in the last few decades. This process has happened both at the level of mathematical research and at the level of the applications generated by the solution methods that were created. To write a monograph dedicated to a certain domain of mathematical programming is, under such circumstances, especially difficult. In the present monograph we opt for the domain of fractional programming. Interest in this subject was generated by the fact that various optimization problems from engineering and economics consider the minimization of a ratio between physical and/or economical functions, for example cost/time, cost/volume, cost/profit, or other quantities that measure the efficiency of a system. For example, the productivity of industrial systems, defined as the ratio between the realized services in a system within a given period of time and the utilized resources, is used as one of the best indicators of the quality of their operation. Such problems, where the objective function appears as a ratio of functions, constitute fractional programming problems. Due to its importance in modeling various decision processes in management science, operational research, and economics, and also due to its frequent appearance in other problems that are not necessarily economical, such as information theory, numerical analysis, stochastic programming, decomposition algorithms for large linear systems, etc., the fractional programming method has received particular attention in the last three decades.

This volume contains the papers from the Sixth Eugene Lukacs Symposium on "Multidimensional Statistical Analysis and Random Matrices", which was held at the Bowling Green State University, Ohio, USA, 29--30 March 1996.

Multidimensional statistical analysis and random matrices have been the topics of great research. The papers presented in this volume discuss many varied aspects of this all-encompassing topic. In particular, topics covered include generalized statistical analysis, elliptically contoured distribution, covariance structure analysis, metric scaling, detection of outliers, density approximation, and circulant and band random matrices.

This volume comprises the proceedings of the Second International Rangelands Congress held in Adelaide, Australia in May 1984, and includes some 350 contributions drawn from 43 different countries. The Congress addressed the problem of the conflict between land-users and the degradation of this valuable resource. Some 40% of the Earth's land surface is arid or alpine and therefore unsuitable for agricultural cultivation. Collectively, these lands are known as

rangelands and in their natural state they constitute a habitat for grazing animals, both domestic and wild. Despite their low productivity, rangelands have been used for thousands of years as a source of food and fibre, but other uses such as mining, tourism, recreation and conservation are exerting increasing demands.

The result is often conflict between land-users and degradation of the resource.

Suitable for engineering and management courses, this book intends to develop an understanding of the basic management concepts required in different engineering disciplines, and meets the specific requirements of students pursuing B Tech/M Tech courses and MBA, Post graduate Diploma in Management/Engineering Management.

This volume contains the Proceedings of the Advanced Symposium on Multivariate Modeling and Data Analysis held at the 64th Annual Meeting of the Virginia Academy of Sciences (VAS)--American Statistical Association's Virginia Chapter at James Madison University in Harrisonburg, Virginia during May 15-16, 1986. This symposium was sponsored by financial support from the Center for Advanced Studies at the University of Virginia to promote new and modern information-theoretic statistical modeling procedures and to blend these new techniques within the classical theory. Multivariate statistical analysis has come a long way and currently it is in an evolutionary stage in the era of high-speed computation and computer technology. The Advanced Symposium was the first to address the new innovative approaches in multivariate analysis to develop modern analytical and yet practical procedures to meet the needs of researchers and the societal need of statistics. vii viii PREFACE Papers presented at the Symposium by eminent researchers in the field were geared not just for specialists in statistics, but an attempt has been made to achieve a well balanced and uniform coverage of different areas in multivariate modeling and data analysis. The areas covered included topics in the analysis of repeated measurements, cluster analysis, discriminant analysis, canonical correlations, distribution theory and testing, bivariate density estimation, factor analysis, principal component analysis, multidimensional scaling, multivariate linear models, nonparametric regression, etc.

Carbohydrate reserves constitute the major part of edible portion of the plants. Latest researches in major crops like wheat, rice, maize, barley, potato, sugarcane, sugarbeet, Jerusalem artichoke, chicory and carbohydrates in trees have been included in this book. The book will be of great value to the basic plant biochemists, molecular biologists, biotechnologists, and genetic crop engineers and to the agricultural scientists working in different disciplines related to crop productivity. This compilation may act as a medium to initiate discussions among these scientists leading to new researches in the area of crop productivity and reserve carbohydrate metabolism.

This volume provides recent developments and a state-of-the-art review in various areas of mathematical modeling, computation and optimization. It contains theory, computation as well as the applications of several mathematical models to problems in statistics, games, optimization and economics for decision making. It focuses on exciting areas like models for wireless networks, models of Nash networks, dynamic models of advertising, application of reliability models in economics, support vector machines, optimization, complementarity modeling and games.

"This volume presents recent methodological developments in data analysis and classification. It covers a wide range of topics, including methods for classification and clustering, dissimilarity analysis, graph analysis, consensus methods, conceptual analysis of data, analysis of symbolic data, statistical multivariate methods, data mining and knowledge discovery in databases. Besides structural and theoretical results, the book presents a wide variety of applications, in fields such as biology, micro-array analysis, cyber traffic, bank fraud detection, and text analysis. Combining new methodological advances with a wide variety of real



applications, this volume is certainly of special value for researchers and practitioners, providing new analytical tools that are useful in theoretical research and daily practice in classification and data analysis."--Publisher's website.

Just as Americans least disadvantaged by racism are most likely to call their country post-racial, Indians who have benefited from upper-caste affiliation rush to declare their country a post-caste meritocracy. Ajantha Subramanian challenges this belief, showing how the ideal of meritocracy serves the reproduction of inequality in Indian education.

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