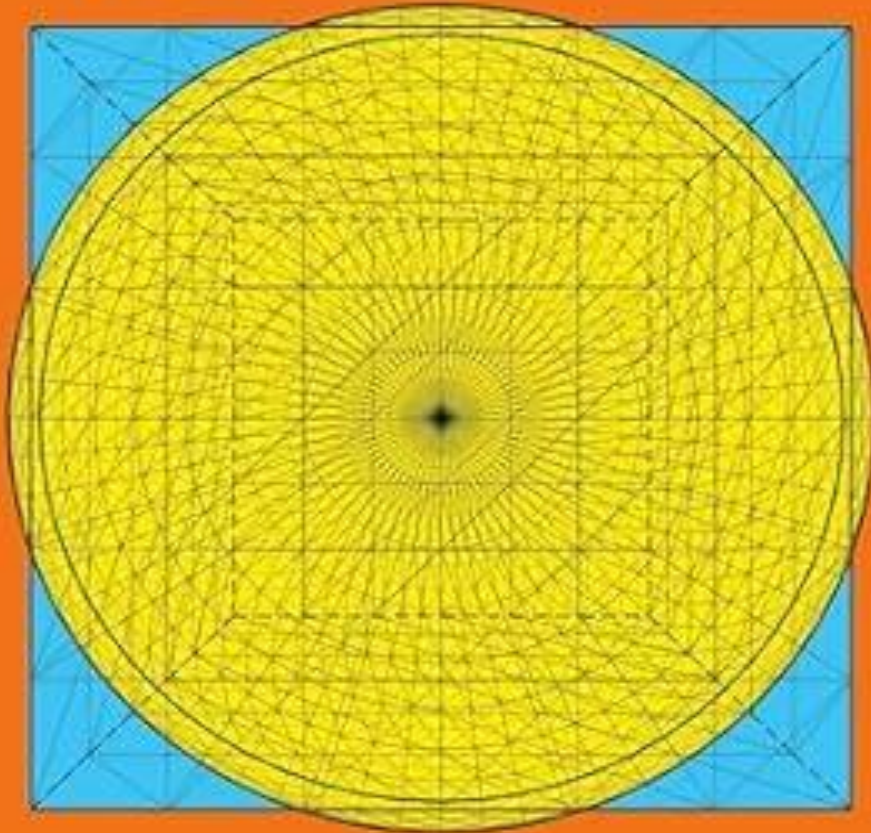


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Foundations of Data Science

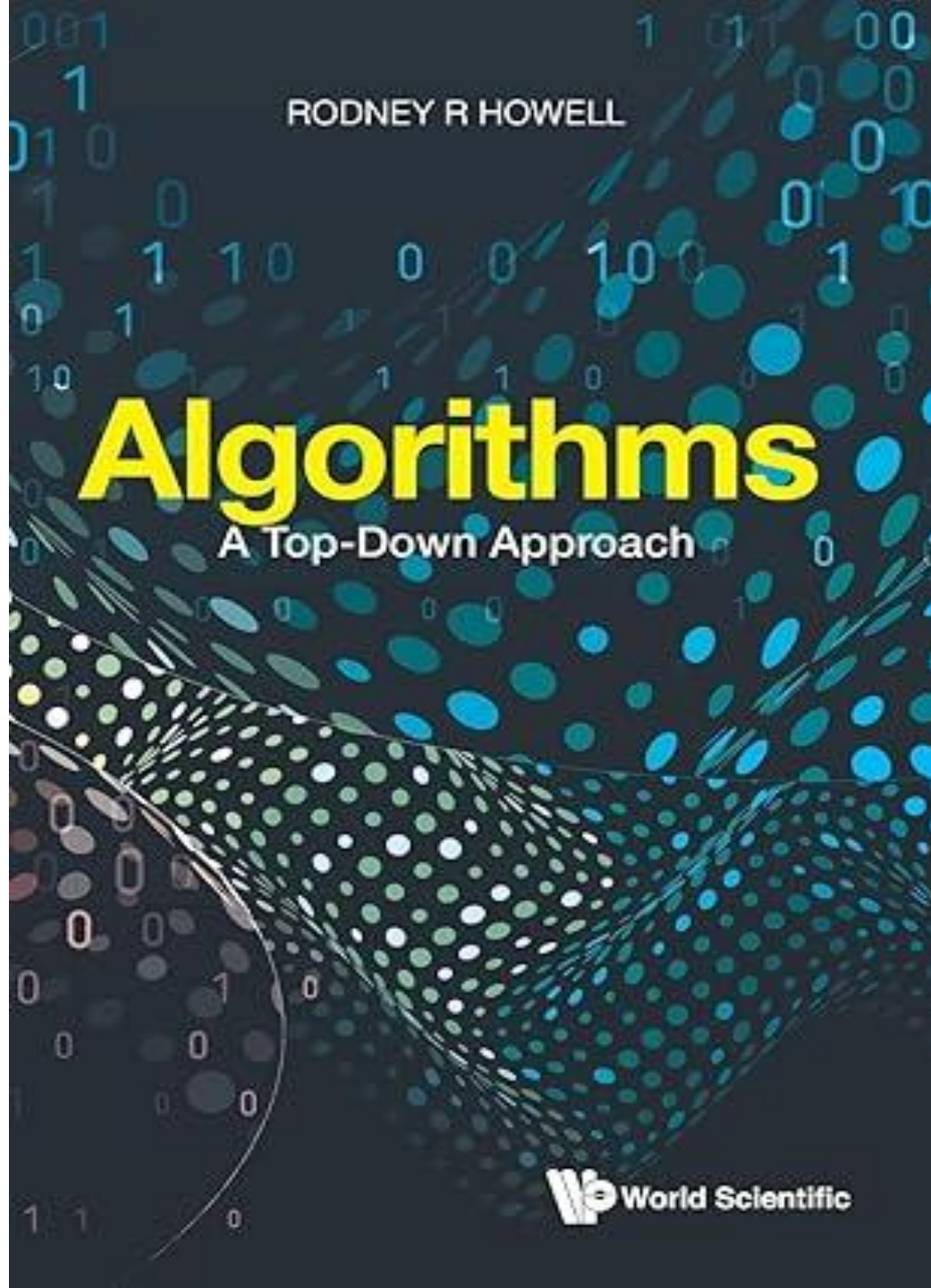
**Avrim Blum
John Hopcroft
Ravindran Kannan**



Acc. No : 49915

Call No : 004 BLU-A

This book introduces the mathematical and algorithmic foundations of data science, including machine learning, high-dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high dimensions, important linear algebraic techniques such as singular value decomposition, the theory of random walks and Markov chains, the fundamentals of and important algorithms for machine learning, algorithms and analysis for clustering, probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic techniques are developed, including the law of large numbers, tail inequalities, analysis of random projections, generalization...



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This comprehensive compendium provides a rigorous framework to tackle the daunting challenges of designing correct and efficient algorithms. It gives a uniform approach to the design, analysis, optimization, and verification of algorithms. The volume also provides essential tools to understand algorithms and their associated data structures. This useful reference text describes a way of thinking that eases the task of proving algorithm correctness. Working through a proof of correctness reveals an algorithm's subtleties in a way that a typical description does not. Algorithm analysis is presented using careful definitions that make the analysis mathematically rigorous. This book gives an introduction to the design and analysis of algorithms. It is intended to introduce the reader to the theories of...

DE GRUYTER

Michael H. Mitias

WHAT MAKES AN ARTWORK GREAT?

DE
G



Acc. No : 49974

Call No : 100 MIT-M

Michael Mitias presents, explains, and defends in some detail the features that make an artwork great magic, universality, and the test of time. Although some aestheticians, beginning with Longinus, discussed these features during the past two millennia, they did not analyse them comprehensively, nor did they justify them from the standpoint of a satisfactory conception of the nature of art. In this book, the author first explains the nature of the features that make an artefact art and then proceeds to establish the validity of his thesis on firm epistemological and ontological foundations. In his endeavour to explicate the nature of this foundation, the author answers four questions. First, what is the genesis of the artwork? What makes it art? He answers this question by advancing a concept of aesthetic...

Human Nature, Irrationality and
Why We Do What We Do



PSYCHOLOGICAL TRIGGERS

The Hidden Influences Behind Our
Actions, Thoughts and Behaviors



PETER HOLLINS

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Understand, avoid, and defeat the subconscious causes of your irrational and self-defeating behaviours. It's only human nature. A psychological trigger is something that causes us to act out of urgency, not correctness or even happiness. It's a switch that is flipped outside of our consciousness. This is fertile ground for some of the worst decisions of our lives. Seize control of your impulses and make better decisions. Psychological Triggers is an introduction to yourself, your impulses, your desires, and everything in your subconscious that drives you to action. It answers the question, Why did I just make a terrible choice when I know I shouldn't have? We are all slaves to our triggers, and this book seeks to identify them to better battle them. We might think we are making our decisions independently and...

MINDFUL RELATIONSHIP HABITS



25 Practices for Couples to
Enhance Intimacy, Nurture Closeness,
and Grow a Deeper Connection

S. J. Scott and Barrie Davenport



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Your relationship can often seem less urgent than the day-to-day emergencies that you deal with your job, finances, children, and that to-do list full of chores. They all demand your immediate attention. What often gets lost in the shuffle is the love you share with your partner. If you want to build a deeper connection with your spouse or partner, then one solution is to build mindful relationship habits. In a mindful relationship, you are intentional about all your choices and interactions with your partner. You become more proactive in responding to each other's needs and less reactive to the challenges that often arise. You evolve to a higher level of interaction with one another. The Wall Street Journal bestselling authors S.J. Scott and Barrie Davenport show you how to have a better...



THICH NHAT HANH



NOTHING TO DO,
NOWHERE TO GO

WAKING UP TO WHO YOU ARE

Foreword by Shantum Seth



Acc. No : 49384

Call No : 294.3444 HAN-T

In this fresh translation and commentary, Thich Nhat Hanh explores the essential teachings of Master Linji, one of the founders of Zen Buddhism. Linji's unorthodox teachings remind us that insight is better reached through our own experience and practice than by following others. With humour, skill, and compassion, Thich Nhat Hanh shows how we can each get closer to the ideal person within us, the person who simply is, with nothing to achieve and nowhere to be. The essential teaching of Linji, which was written about ten centuries ago by his students, he never wrote anything is focused on something we can all relate to in *Nothing To Do, Nowhere To Go*. He gave the concept of the business to fewer people. According to Master Linji, the businessless person is an individual who has simply...



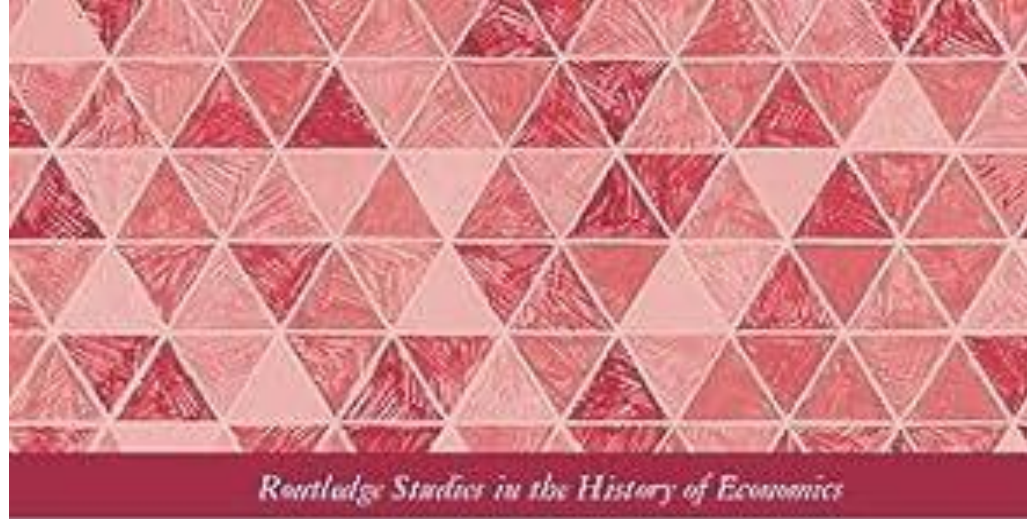
GLOBAL RESOURCES and the ENVIRONMENT

CHADWICK DEARING OLIVER
FATMA ARF OLIVER

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In the past few decades, the sustainability of natural resources and the social and environmental issues that surround them have become increasingly topical. This multidisciplinary book discusses the complex relationships between society, natural resources, and the environment. Major resources, including water, agriculture, energy, minerals, and forests, are considered, as well as different facets of the environment, including climate, landforms, and biodiversity. Each resource is discussed in the context of both environmental and socio-economic factors affecting its present and future distribution and demand. Presenting a balanced, comprehensive overview of the issues surrounding natural resources and sustainability, this accessible volume will be of...



Routledge Studies in the History of Economics

FOUNDATIONS OF ORGANISATIONAL ECONOMICS

HISTORIES AND THEORIES OF
THE FIRM AND PRODUCTION

Paul Walker



Acc. No : 49644

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Foundations of Organisational Economics: Histories and Theories of the Firm and Production delves into a range of key topics related to do with the history of the mainstream approach to the theory of production and the theory of the firm. This includes the frameworks used to analyse production, the division of labour and its application to the firm, and the development of the neoclassical model of production. The first topic explored is the change from a normative approach to a largely positive approach to the analysis of the theory of production, which occurred around the seventeenth century. The next topic is an examination of the relationship or the lack of a relationship between the division of labour and the theory of the firm. In the fourth chapter, the focus is on the development of the...

HOW I FINANCE EXPERTS INVEST REVEAL HOW THEY SAVE, MY SPEND, AND INVEST MONEY

EDITED BY

JOSHUA BROWN
BRIAN PORTNOY

ILLUSTRATED BY CARL RICHARDS



Acc. No : 49284


Call No : 332.024 BRO-J

The world of investing normally sees experts telling us the right way to manage our money. But how often do these experts pull back the curtain and tell us how they invest their own money? Never. *How I Invest My Money* changes that. In this unprecedented collection, 25 financial experts share how they navigate markets with their capital. In this honest rendering of how they invest, save, spend, give, and borrow, this group of portfolio managers, financial advisors, venture capitalists, and other experts details the how and the why of their investments. They share stories about their childhood, their families, the struggles they face, and the aspirations they hold. Sometimes raw, always revealing, these stories detail the indelible relationship between our money and our values. Taken as a whole, these...

An Introduction to Abstract Algebra

Sets, Groups, Rings, and Fields

Steven H Weintraub

 World Scientific



Acc. No : 49882

Call No : 512.02 WEI-S

This book is a textbook for a semester-long or year-long introductory course in abstract algebra at the upper undergraduate or beginning graduate level. It treats set theory, group theory, ring and ideal theory, and field theory, including Galois theory, and culminates with a treatment of Dedekind rings, including rings of algebraic integers. In addition to treating standard topics, it contains material not often dealt with in books at this level. It provides a fresh perspective on the subjects it covers, with, in particular, distinctive treatments of factorization theory in integral domains and of Galois theory. As an introduction, it presupposes no prior knowledge of abstract algebra, but provides a well-motivated, clear, and rigorous treatment of the subject, illustrated by many examples. Written with an eye...



200 Problems Languages, Automata, & Computation

EDITED BY
Filip Murlak
Damian Niwiński
Wojciech Rytter



Acc. No : 49894

Call No : 519.7 MUR-F

Formal languages and automata have long been fundamental to theoretical computer science, but students often struggle to understand these concepts in the abstract. This book provides a rich source of compelling exercises designed to help students grasp the subject intuitively through practice. The text covers important topics such as finite automata, regular expressions, push-down automata, grammars, and Turing machines via a series of problems of increasing difficulty. Problems are organized by topic, many with multiple follow-ups, and each section begins with a short recap of the basic notions necessary to make progress. Complete solutions are given for all exercises, making the book well-suited for self-study as well as for use as a course supplement. Developed over the...



A Student's Guide to **Rotational Motion**

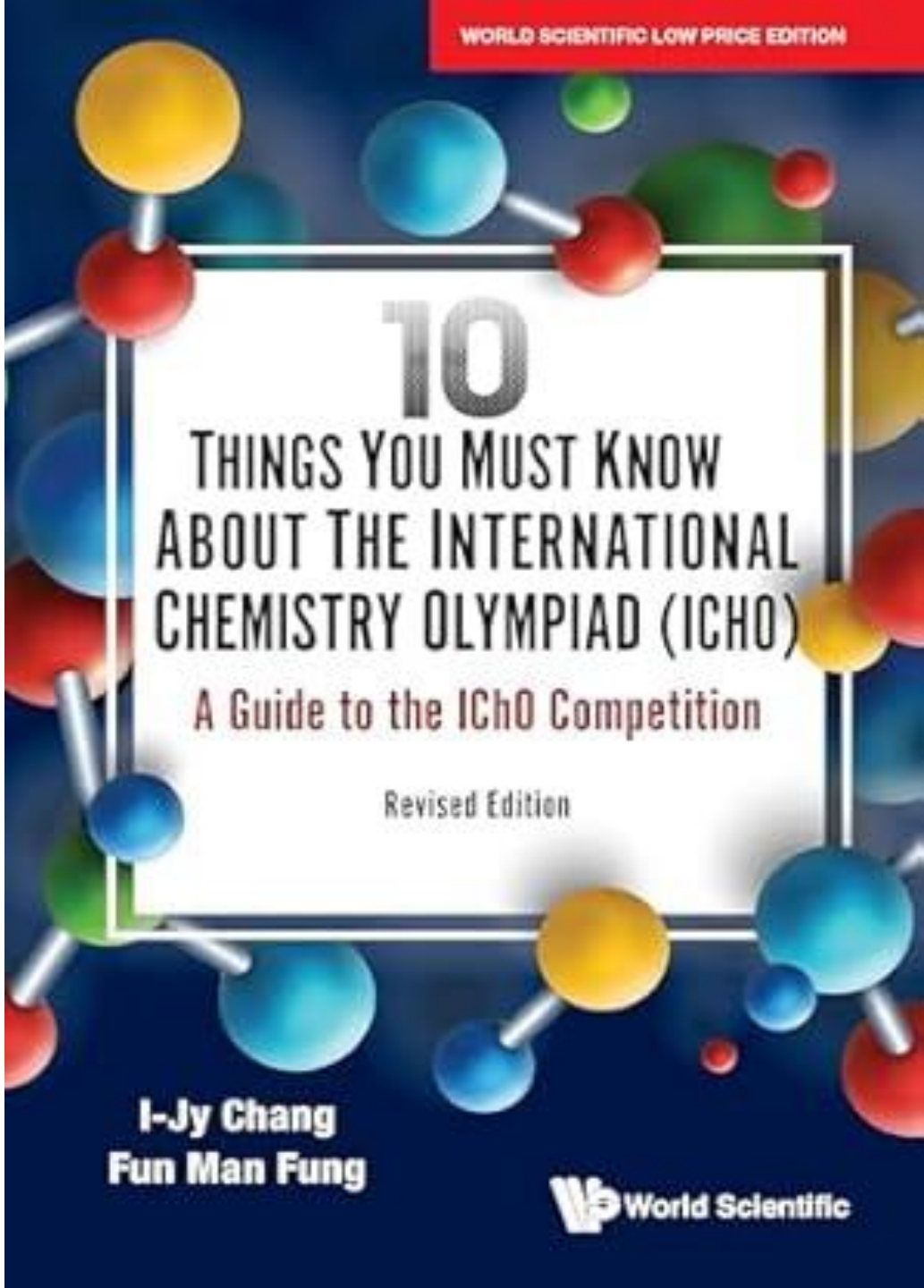


**EFFROSYNI SEITARIDOU
ALFRED C.K. FARRIS**

Acc. No : 49898

Call No : 531.34 SEI-E

Rotational motion is of fundamental importance in physics and engineering, and an essential topic for undergraduates to master. This accessible yet rigorous Student's Guide focuses on the underlying principles of rotational dynamics, providing the reader with an intuitive understanding of the physical concepts and a firm grasp of the mathematics. Key concepts covered include torque, moment of inertia, angular momentum, work and energy, and the combination of translational and rotational motion. Each chapter presents one important aspect of the topic, with derivations and analysis of the fundamental equations supported by step-by-step examples and exercises demonstrating important applications. Much of the book is focused on scenarios in which point masses and rigid bodies...



10 THINGS YOU MUST KNOW ABOUT THE INTERNATIONAL CHEMISTRY OLYMPIAD (ICHO)

A Guide to the IChO Competition

Revised Edition

**I-Jy Chang
Fun Man Fung**

 **World Scientific**

Acc. No : 49873

Call No : 540 CHA-I

This is a book dedicated to special groups in the community whom we reach out to promote chemistry interest and learning chemistry. It will be immensely useful to students, parents who are interested in Science Olympiads, Chemistry Olympiad, chemistry instructors at the secondary and collegiate levels, and other science instructors at the secondary and collegiate levels. This is a one-of-a-kind book that details the 'behind-the-scenes' preparation and pieces of training that students undergo in various countries. It will enable the effective promotion of chemistry in your respective countries and around the globe. The International Chemistry Olympiad has been an important event for chemistry societies. It plays as a catalyst to inspire young students to be deeply devoted in pursuing theories and experiments in...

Essentials of Water

Water in the Earth's
Physical and Biological Environments



PETER D. BLANKEN



Acc. No : 49913

Call No : 551.48 BLA-P

Water shapes the planet and all life upon it. Breaking down traditional disciplinary barriers, this accessible, holistic introduction to the role and importance of water in Earth's physical and biological environments assumes no prior knowledge. It provides the reader with a clear and coherent explanation of the unique properties of water and how these allow it to affect landscapes and underpin all life on Earth. Contemporary issues surrounding water quality, such as the rise of microplastics and climate change, are highlighted, ensuring readers understand current debates. Giving all of the necessary background and up-to-date references, and including numerous examples and illustrations to explain concepts, worked mathematical calculations, and extensive end-of-chapter questions, this is the...

Fred D. Singer

Ecology in Action

Second Edition



Acc. No : 49909

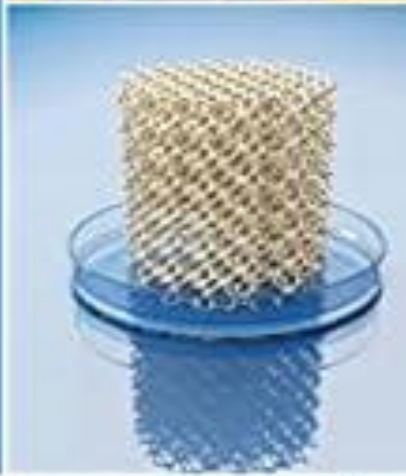
Call No : 577.072 SIN-F

Providing students with a solid understanding of core ecological concepts while explaining how ecologists raise and answer real-world questions, this second edition weaves together classic and cutting-edge case studies to bring the subject to life. It is fully updated throughout, including two chapters devoted to climate change ecology, along with extensive coverage of disease ecology, and has been designed specifically to equip students with the tools to analyze and interpret real data. Each chapter emphasizes the linkage between observations, ideas, questions, hypotheses, predictions, results, and conclusions. Additional summary sections describe the development and evolution of research programs in each of ecology's core areas, providing students with essential context. Integrated discussion...

EMERGING MATERIALS AND TECHNOLOGIES

Functional Nanomaterials for Regenerative Tissue Medicines

edited by
Mariappan Rajan



Acc. No : 49623

Call No : 612.028 RAJ-M

This book covers nanomaterials in tissue engineering for regenerative therapies of the heart, skin, eye, skeletal muscle, and the nervous system. The book emphasizes fundamental design concepts and emerging forms of nanomaterials in soft- and hard-tissue engineering. Fills a gap in the literature related to the application of nanomaterials in hard- and soft-tissue regeneration, repair, and restructuring. Discusses a variety of applications, including cardiac, kidney, liver, bone, wound healing, artificial organs, and dental. Presents advantages and limitations of various nanomaterials alongside future challenges. Functional Nanomaterials for Regenerative Tissue Medicines is essential for academics and industry professionals working in tissue engineering, biomedicine, biopharmaceuticals, and...

Transport and Interactions of Chlorides in Cement-Based Materials

Caijun Shi • Qiang Yuan
Fuqiang He • Xiang Hu

 CRC Press
Taylor & Francis Group



Acc. No : 49631

Call No : 620.135 SHI-C

Chloride-induced corrosion is the most important durability issue of reinforced concrete structures, and the prediction and prevention of chloride-induced corrosion has attracted considerable interest all over the world. Given that chloride penetrates through the concrete cover, the issues concerning its transport are crucial. These include testing methods, prediction, and the prevention of ingress. During the transport process, physical and chemical interaction occurs between chloride and cement hydrates, which in turn affect the further transport, so the transport of chloride and these interactions are closely related and underpin our understanding of chloride-induced corrosion in RC structures. This book provides an in-depth discussion of chloride transport and its interaction in cement-based...

FROM 5G TO 6G AND BEYOND

The 7 Cs of Future Communications



Editor
Kiat Seng YEO

 World Scientific



Acc. No : 49954

Call No : 621.382 YEO-K

With speeds of up to 20 gigabits per second and the ability to support up to one million devices per square kilometer, 5G, the current generation of mobile communications technology, may seem impressive, but 6G is set to take these capabilities even further. Envisioned to deliver a peak data rate of 1 terabit per second and latency of 100 microseconds or less, 6G must be able to seamlessly and securely deliver data in an ever increasingly saturated network of wireless connections without exceeding the energy requirements of 5G. This book covers every aspect of future communications, from key technologies, to design challenges, network requirements, and user experiences, to standardization, chip design, and industry applications from 5G to 6G. It presents the...



CRC Press
Taylor & Francis Group

Rakesh K. Jain
Prashant Shantaram Dhotre
Deepak Tatyasaheb Mane
Parikshit Narendra Mahalle

Data Science for Civil Engineering

A Beginner's Guide

Acc. No : 49562

Call No : 624.0285 JAI-R

This book explains the use of data science-based techniques for modeling and providing optimal solutions to complex problems in civil engineering. It discusses civil engineering problems like air, water, and land pollution, climate crisis, transportation infrastructures, traffic and travel modes, mobility services, and so forth. Divided into two sections, the first one deals with the basics of data science and essential mathematics, while the second section covers pertinent applications in structural and environmental engineering, construction management, and transportation. Details information on essential mathematics required to implement civil engineering applications using data science techniques. Discusses the broad background of data science and its fundamentals. Focuses on structural engineering...



Essentials of Hydraulics

Pierre Y. Julien



Acc. No : 49912

Call No : 627.028 JUL-P

Written for a one-semester course in hydraulics, this concise textbook is rooted in the fundamental principles of fluid mechanics and aims to promote sound hydraulic engineering practice. Basic methods are presented to underline the theory and engineering applications, and examples and problems are built in complexity as students work their way through the textbook. Abundant worked examples and calculations, real-world case studies, and revision exercises, as well as precisely crafted end-of-chapter exercises, ensure students learn exactly what they need to consolidate their knowledge and progress in their career. Students learn to solve pipe networks, optimize pumping systems, design pumps and turbines, solve differential equations for gradually-varied flow and unsteady flow, and gain knowledge of...

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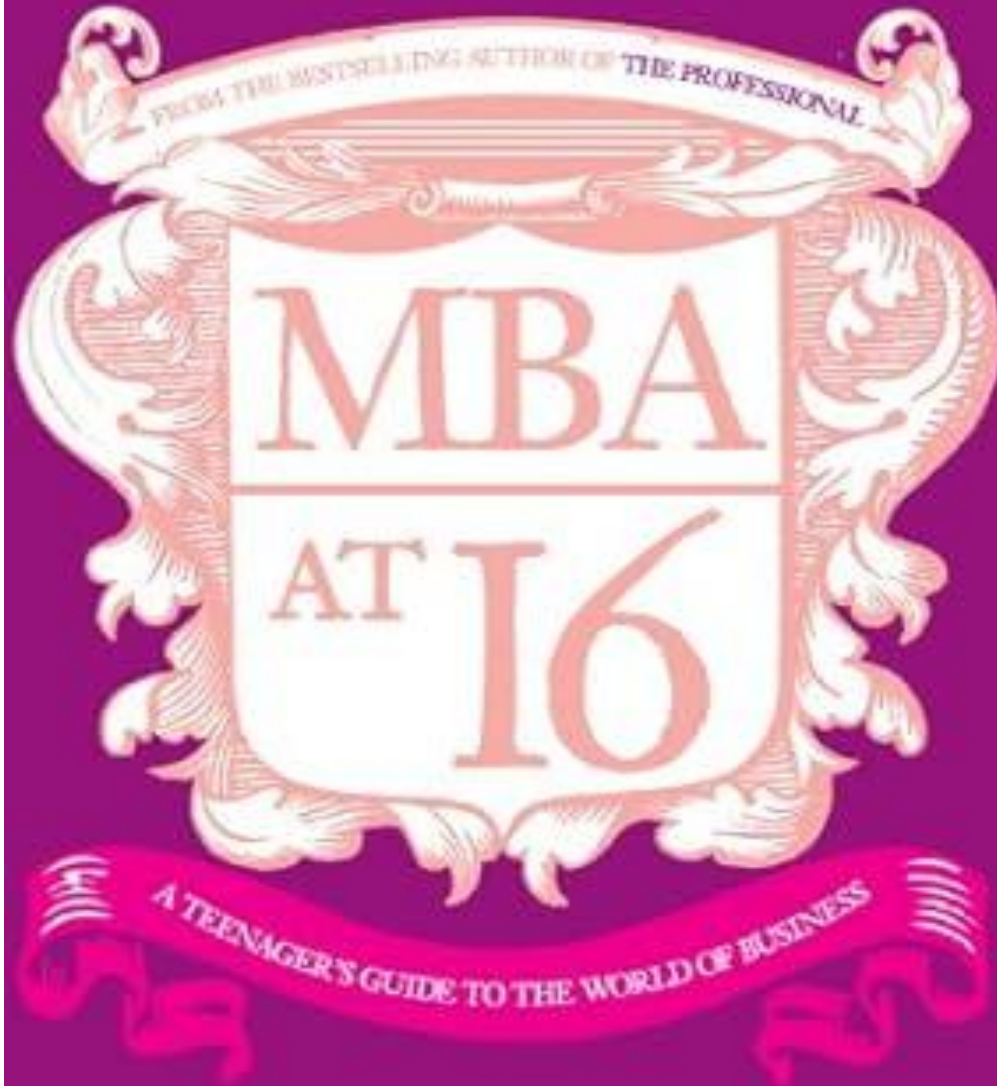
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Call No : 658.11 AUL-B

Disciplined Entrepreneurship Expanded and Updated starts by combining the timeless and insightful principles of Disciplined Entrepreneurship with the practical tools found in the Disciplined Entrepreneurship Workbook into a single, comprehensive package. The book has also been updated with recent developments in the field and examples, as well as a robust new library of additional resources. Author, entrepreneur, professor, and Managing Director of the Martin Trust Center for MIT Entrepreneurship, Bill Aulet, systematically walks readers through exactly how to create a successful startup. This book presents a detailed, sequential but not linear, integrated, and proven 24-step framework that any entrepreneur can apply immediately to improve their chances of entrepreneurial...

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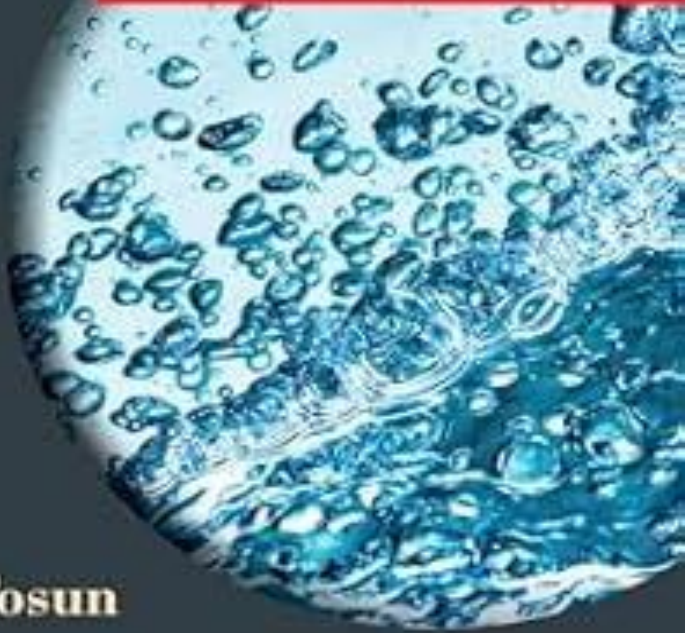
B A G C H I



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You are 16, going on 17. Steve Jobs was all of sixteen when he met Stephen Wozniak. What resulted was Apple. When Sergey Brin and Larry Page met at Stanford, they were in their early twenties. They were soon to start Google. Today's teenagers are our smartest generation yet. They are tomorrow's entrepreneurs, investors, managers, policy makers, watchdogs, and, of course, consumers. But do you know what the corporate and business world is all about? How do businesses touch everyone's lives? What makes an entrepreneur tick? How does the engine of a company run? Who is a social entrepreneur? And why do we need the world of business? Is business good or bad for us? If you are curious, come join Subroto Bagchi and a group of...



Ismail Tosun

Solved Problems in Transport Phenomena

Momentum Transfer

 **World Scientific**



Acc. No : 49874

Call No : 660.284292 TOS-I

Transport Phenomena is an umbrella term to describe the fundamental processes of momentum, energy, and mass transfer. This unique compendium covers momentum transfer at the microscopic and macroscopic levels in the three stages of problem-solving, namely formulation, simplification, and mathematical solution. The book does not overwhelm students with a large repertoire of problems. Instead, it highlights a clear and easy presentation to help students grasp the methodology in problem-solving. This useful reference text benefits upper undergraduate and graduate level students in the fields of chemical, mechanical, civil, and environmental engineering. The purpose of this book is not to provide students with a large repertoire of problems on momentum transfer. Instead, the...

A Practical Guide to Scientific Writing in Chemistry

Scientific Papers, Research Grants
and Book Proposals

Andrew Terhemem Tyowua



Acc. No : 49642

Call No : 808.0665 TYO-A

Successful completion of postgraduate studies, especially a PhD, and career advancement in academia strongly depend on the ability to publish scientific papers or books and attract research grants. However, many chemical scientists find preparing scientific papers and research grant and book proposals difficult; partly because of insufficient training in writing and partly because there are few practical books to enable them to learn the art. This step-by-step practical guide is intended mainly for postgraduate students and early career researchers in chemical science and the libraries that serve them but will also be useful to other scientists. Improves the reader's chances of getting their manuscript published in chemistry journals. Increases the likelihood of winning research grants in chemistry...

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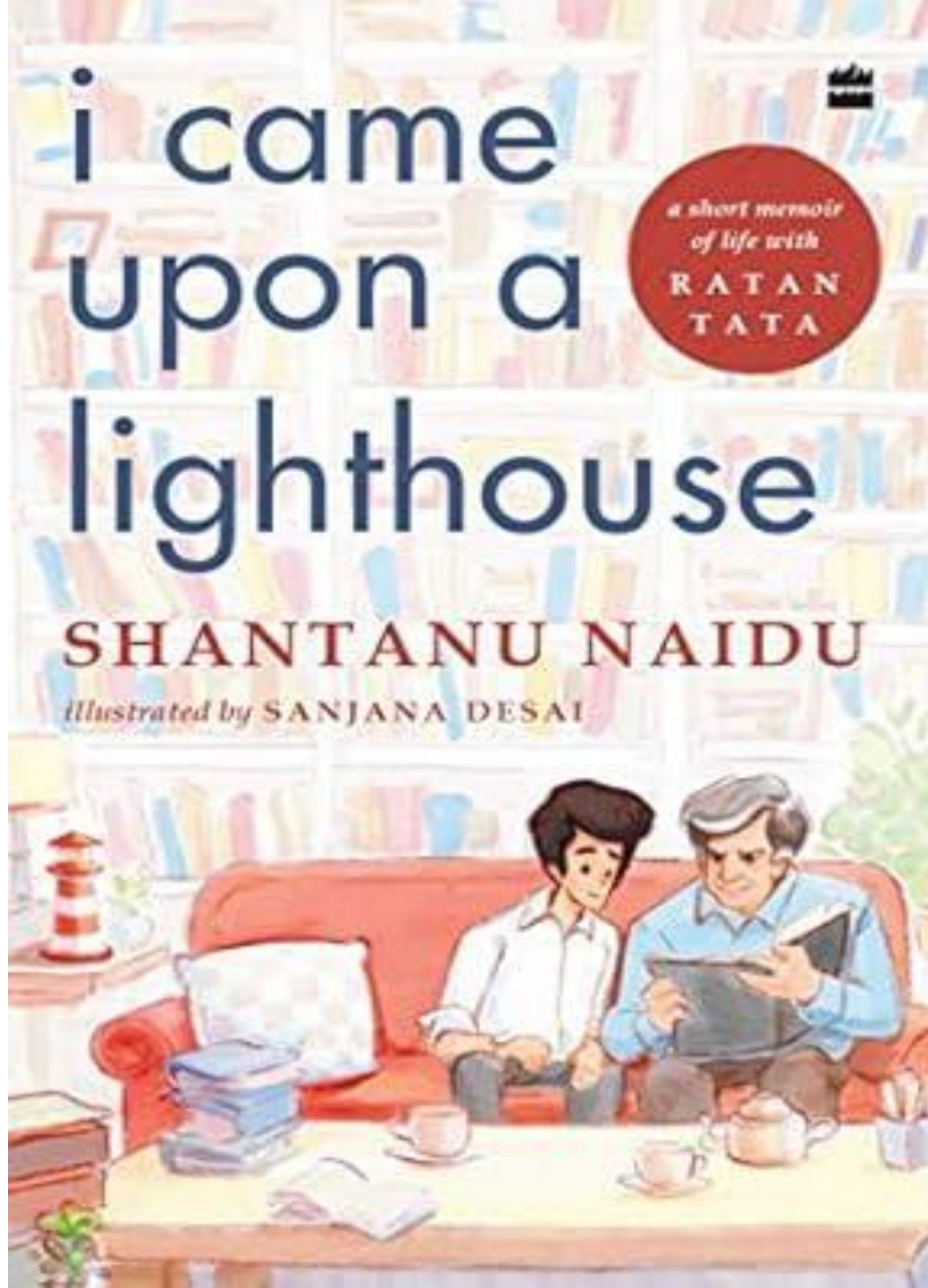
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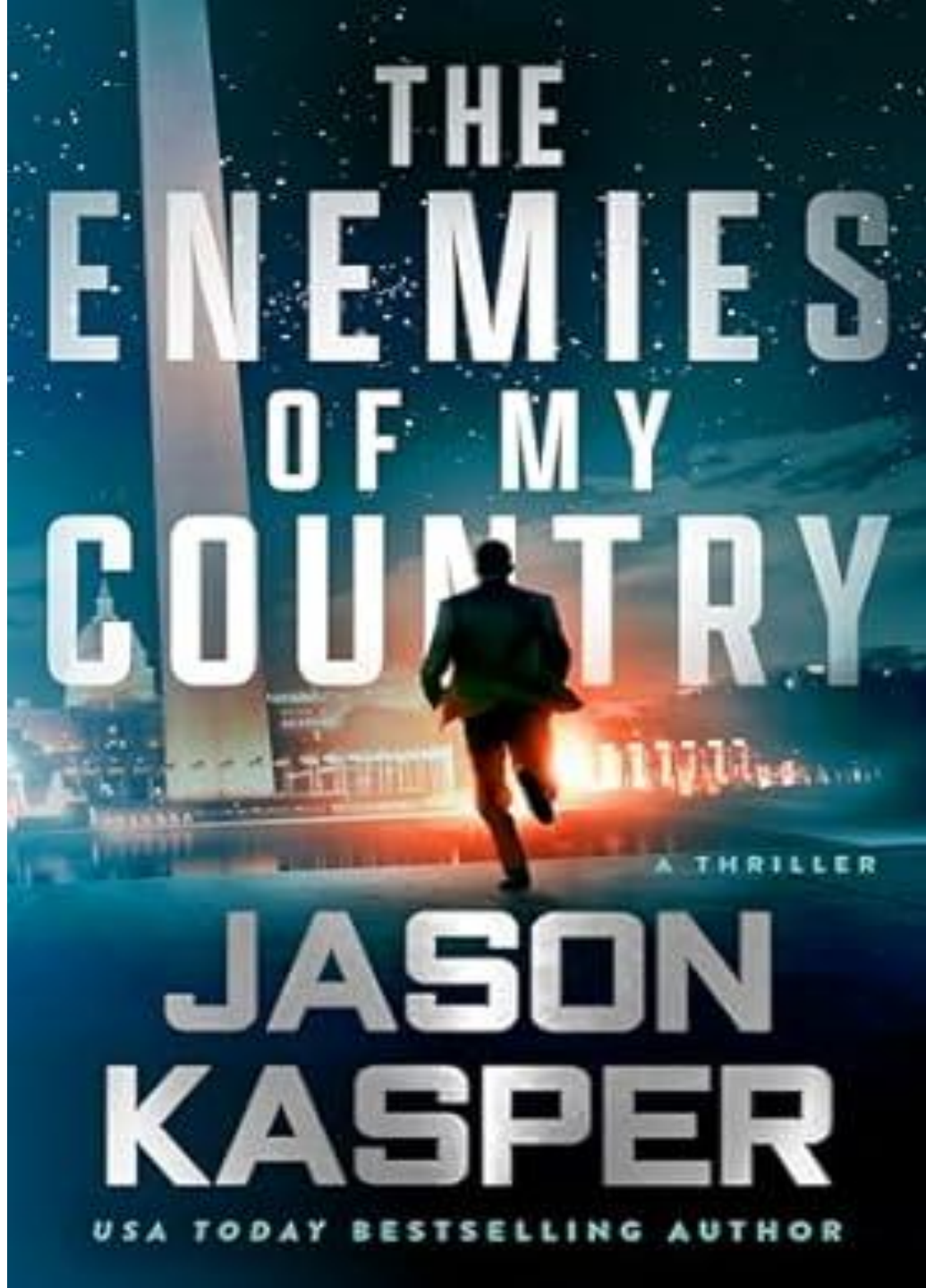
With a GDP that just reached \$2.6 trillion, India is poised to become the world's third-largest economy in less than a decade. In doing so, it will have moved one step closer to reclaiming its pre-industrial glory when it accounted for one-sixth of the global output and ranked second in economic size. This rapid movement in the absolute size of the economy will be insufficient, however, to bring prosperity to India's vast population. Today, 44% of the country's workforce remains in agriculture, and another 42% in small enterprises with fewer than twenty workers. Labor productivity of both sets of workers remains low, and they live overwhelmingly on subsistence-level incomes. In *New India: Reclaiming the Lost Glory*, Arvind Panagariya outlines a concise strategy to transform India from a primarily rural and...



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An endearing portrait of an Indian legend told him that when I write a book, I would write about another side of him and not just historic events or business milestones. I would write about us and our adventures together, and how I saw him, colors and shades of him unknown to the world. Life beyond the great steel wall of 'industry doyen'. He agreed. There cannot be one book that captures everything. So you do your thing, give your perspective. It was their shared empathy for homeless dogs that sparked an unlikely friendship. In 2014, Shantanu Naidu, an automobile design engineer in his early twenties, developed an innovation to save the local strays from being run over by speeding cars. Ratan Tata, himself known for his compassion for stray dogs, took note. Impressed, he not only decided to invest in...



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Call No : Fiction KAS-J

While on a covert mission in Syria, CIA special operator David Rivers discovers the enemy's newest target, his own family. David Rivers is an elite-level assassin. A veteran operator who has served as a Ranger, a mercenary, and now as a CIA contractor conducting covert action worldwide. In Virginia, however, Rivers lives a quiet life. His cover is so convincing that even his wife doesn't know what he does. While on a mission to assassinate a foreign terrorist half a world away from home, Rivers uncovers intelligence pointing to an imminent attack on US soil. He must hunt down the terrorists before it's too late. But there is something impossibly chilling about this particular intel. The target is in his hometown, and David Rivers' wife and daughter are mentioned by name. From former Green Beret and...



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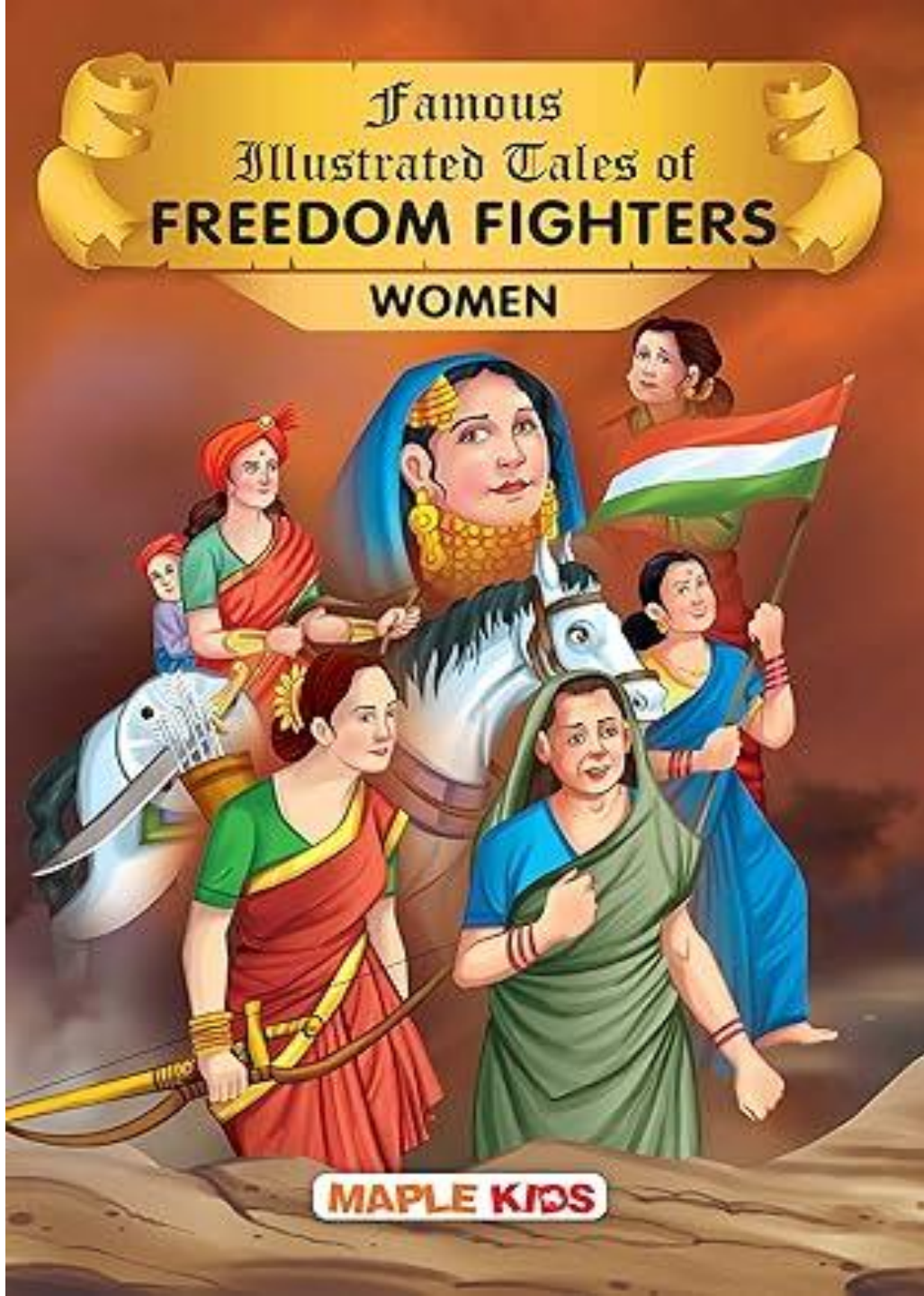
selected & translated by
NEERJA MATTOO



Acc. No : 49419

Call No : Fiction MAT-N

The Greatest Kashmiri Stories Ever Told spans almost a century of work by some of the finest short fiction writers in the language. The storytellers included here range from the earliest practitioners of the craft of short story writing, Dinanath Nadim, Somnath Zutshi, and Ali Mohammad Lone, to more contemporary writers like Dheeba Nazir. Some stories in this collection are realistic dramas that hold up a startlingly clear mirror to society, such as Sofi Ghulam Mohammad's 'Paper Tigers', or lay bare the pain of losing one's homeland, as Rattan Lal Shant does in 'Moss Floating on Water'. Then there are others like Ghulam Nabi Shakir's 'Unquenched Thirst' and Umesh Kaul's 'The Heart's Bondage', that look beyond the exterior and focus on the complex inner lives of the women of Kashmir. Selected and translated by...



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Call No : 954.035 MAP (Young Learners)

This book narrates the tales of extraordinary women who rose above society's constraints to secure freedom for our motherland. From Kittur Chennamma to Rani Laxmibai, Durgawati Devi and Pritilata Waddedar, from Velu Nachiyar to Begum Hazrat Mahal, Matangini Hazra and Kanaklata Barua, Famous Illustrated Tales of Freedom Fighters Women chronicles the challenges and courage of 14 Indian women who faced the mighty British Empire. Read and be inspired by these relentless women lest their heroic tales be lost in the pages of history. Freedom fighters and their contributions are an important part of Modern Indian History for UPSC Preparation. The contribution of women in the struggle for an Independent India cannot be overlooked. A lot of courageous women raised their voices against British rule. Many women took to the streets, led processions...

Jill Tomlinson



The Cat Who Wanted to Go Home



Acc. No : 49841

Call No : Fiction TOM-J (Young Learners)

The classic story about a cat in danger of using up all of her nine lives is from the author of *The Owl Who Was Afraid of the Dark*. Suzy is a little striped cat, who lives in a French seaside village with a fisherman and his four sons. Like all cats, Suzy is very inquisitive, which causes problems when she climbs into the basket of a hot air balloon and is carried off over the channel to England! How will she ever get back to France? It won't be easy, but Suzy refuses to be put off by a bit of water. Filled with gentle humour and comfort, Jill Tomlinson's animal stories have been enjoyed by children who want to snuggle down with a good read for decades. Perfect for kids aged 5+ who love Julia Donaldson, and Dick King Smith's *The Sheep Pig*. This edition is beautifully illustrated by Paul Howard. Have you enjoyed all of...

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Thank you