

**BITS PILANI – HYDERABAD CAMPUS
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Weekly New-Book Display - 08
(25 February – 03, March 2019)

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Hyderabad Campus



LDPC

Code Designs, Constructions, and Unification



Juane Li • Shu Lin • Khaled Abdel-Ghaffar
William E. Ryan • Daniel J. Costello, Jr.

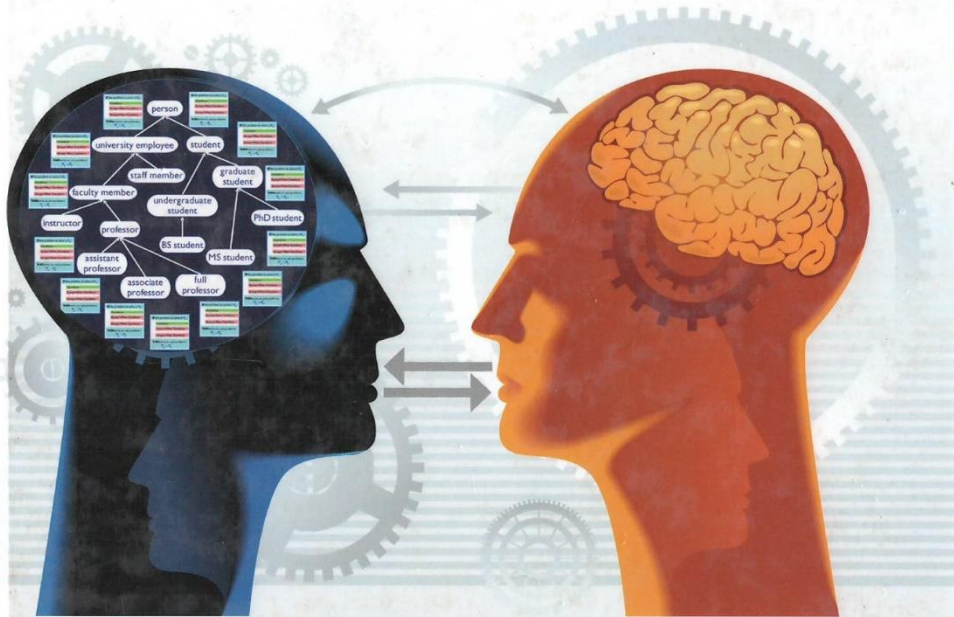
Acc. No : 37823

Call No : 005.717 LI-J

"Written by leading experts, this self-contained text provides systematic coverage of LDPC codes and their construction techniques, unifying both algebraic- and graph-based approaches into a single theoretical framework (the superposition construction). An algebraic method for constructing photograph LDPC codes is described, and entirely new codes and techniques are presented. These include a new class of LDPC codes with doubly quasi-cyclic structure, as well as algebraic methods for constructing spatially and globally coupled LDPC codes. Authoritative, yet written using accessible language, this text is...**(Recommended by Dr. Runa Kumari of EEE Department)**

KNOWLEDGE ENGINEERING

Building Cognitive Assistants for
Evidence-Based Reasoning



Gheorghe Tecuci • Dorin Marcu
Mihai Boicu • David A. Schum



Acc. No : 37622

Call No : 006.33 TEC-G

This book presents a significant advancement in the theory and practice of knowledge engineering, the discipline concerned with the development of intelligent agents that use knowledge and reasoning to perform problem solving and decision-making tasks. It covers the main stages in the development of a knowledge-based agent: understanding the application domain, modeling problem solving in that domain, developing the ontology, learning the reasoning rules, and testing the agent. The book focuses on a special class of agents: cognitive assistants for evidence-based reasoning that learn complex problem-solving expertise directly from human experts... **(Recommended by Prof. Tathagata Ray of CS & IS Department)**



TOOLS OF TITANS

THE TACTICS, ROUTINES AND HABITS
OF BILLIONAIRES, ICONS
AND WORLD-CLASS PERFORMERS

FROM #1 *NEW YORK TIMES* BEST-SELLING AUTHOR

TIM FERRISS

Acc. No : 38077

Call No : 081 FER-T

“This book contains the distilled tools, tactics, and ‘inside baseball’ you won’t find anywhere else. It also includes new tips from past guests, and life lessons from new ‘guests’ you haven’t met. “What makes the show different is a relentless focus on actionable details. This is reflected in the questions. For example: What do these people do in the first sixty minutes of each morning? What do their workout routines look like, and why? What books have they gifted most to other people? What are the biggest wastes of time for novices in their field? What supplements do they take on a daily basis? “I don’t view myself as an interviewer. I view myself as an....



Clinical Perspectives on Autobiographical Memory

EDITED BY LYNN A. WATSON AND DORTHE BERNTSEN

Acc. No : 37742

Call No : 153.13 WAT-L

"Autobiographical memory plays a key role in psychological well-being, and the field has been investigated from multiple perspectives for over thirty years. One large body of research has examined the basic mechanisms and characteristics of autobiographical memory during general cognition, and another body has studied what happens to it during psychological disorders, and how psychological therapies targeting memory disturbances can improve psychological well-being. This edited collection reviews and integrates current theories on autobiographical memory...

Ashwin Parulkar • Saba Sharma
Amod Shah • Shikha Sethia
Rhea John • Anhad Imaan
Annie Baxi



Stories from India's Margins

609

DISPOSSESSED



Acc. No : 37215

Call No : 305.5609 PAR-A

In 2005, starving members of the Bhuiya clan in one of Bihar's poorest villages dug up a long-buried dead goat, cooked and ate it. Sixteen people died within days, twelve of them children. Bengali-speaking Muslims who had moved to Rajasthan from West Bengal in the 1970s and '80s were summarily declared Bangladeshi terrorists in the aftermath of the 2008 Jaipur bomb blasts. They remain stateless in their own country. Landless Lodhas, members of an erstwhile 'Criminal Tribe' in Bihar, grapple even today with centuries of shame and dispossession. These stories—along with those of women with...

INSTITUTIONS ON THE EDGE

The Origins and Consequences of
Inter-Branch Crises in Latin America



GRETCHEN HELMKE



Acc. No : 37642

Call No : 320.98 HEL-G

Why does institutional instability pervade the developing world? Examining contemporary Latin America, *Institutions on the Edge* develops and tests a novel argument to explain why institutional crises emerge, spread, and repeat in some countries, but not in others. The book draws on formal bargaining theories developed in the conflict literature to offer the first unified micro-level account of inter-branch crises. In so doing, Helmke shows that concentrating power in the executive branch not only fuels presidential crises under divided government, but also triggers broader constitutional crises that cascade on to the legislature and ...



Acc. No : 37525

Call No : 333.7140 MAU-J

There are thousands of environmental analyses prepared each year to meet the requirements of the National Environmental Policy Act (NEPA) and similar programs. Written by an expert with 35 years of experience in environmental consulting, research, and education, *Environmental Impact Analysis: Process and Methods* makes the preparation of EIAs not only easier but more thorough. It provides a guide to successfully preparing analyses that are legally defensible; establish the base for environmental protection; and produce better projects, plans, and ...(Recommended by Prof. G. Sankar Ganesh of Biology Department)

Environmental Impact Analysis

Process and Methods

 CRC Press
Taylor & Francis Group

James T. Maughan

The Cambridge Handbooks in Construction Robotics

SITE AUTOMATION

Automated/Robotic
On-site Factories

Thomas Bock
Thomas Linner



Acc. No : 37806

Call No : 338.4562 BOC-T

The Cambridge Handbooks on Construction Robotics discuss progress in robot systems theory and demonstrate their integration using real systematic applications and projections for off-site as well as on-site building production. Site Automation extends the new technology of robotics in building-component manufacturing and construction introduced in earlier volumes to on-site structured environments and on-site automated factories. This volume explores 30 different worldwide systems within a careful analytical framework in which the best conceptual features are extracted in order...(Recommended by Prof. Y.V.Daseswara Rao of Mechanical Engineering Department)



Measuring the ECONOMIC VALUE OF RESEARCH

The Case of Food Safety

EDITED BY

Kaye Husbands Fealing, Julia I. Lane,
John L. King and Stanley R. Johnson

Acc. No : 37754

Call No : 363.1926 FEA-K

The scientific advances that underpin economic growth and human health would not be possible without research investments. Yet demonstrating the impact of research programs is a challenge, especially in areas that span disciplines, industrial sectors, and encompass both public and private sector activity. All areas of research are under pressure to demonstrate benefits from federal funding of research. This exciting and innovative study demonstrates new methods and tools to trace the impact of federal research funding on the structure of research, and...

1926
K



MULTI-CRITERIA DECISION ANALYSIS

ENVIRONMENTAL APPLICATIONS
AND CASE STUDIES

Igor Linkov
Emily Moberg

 CRC Press
Taylor & Francis Group

Acc. No : 37529

Call No : 363.7006 LIN-I

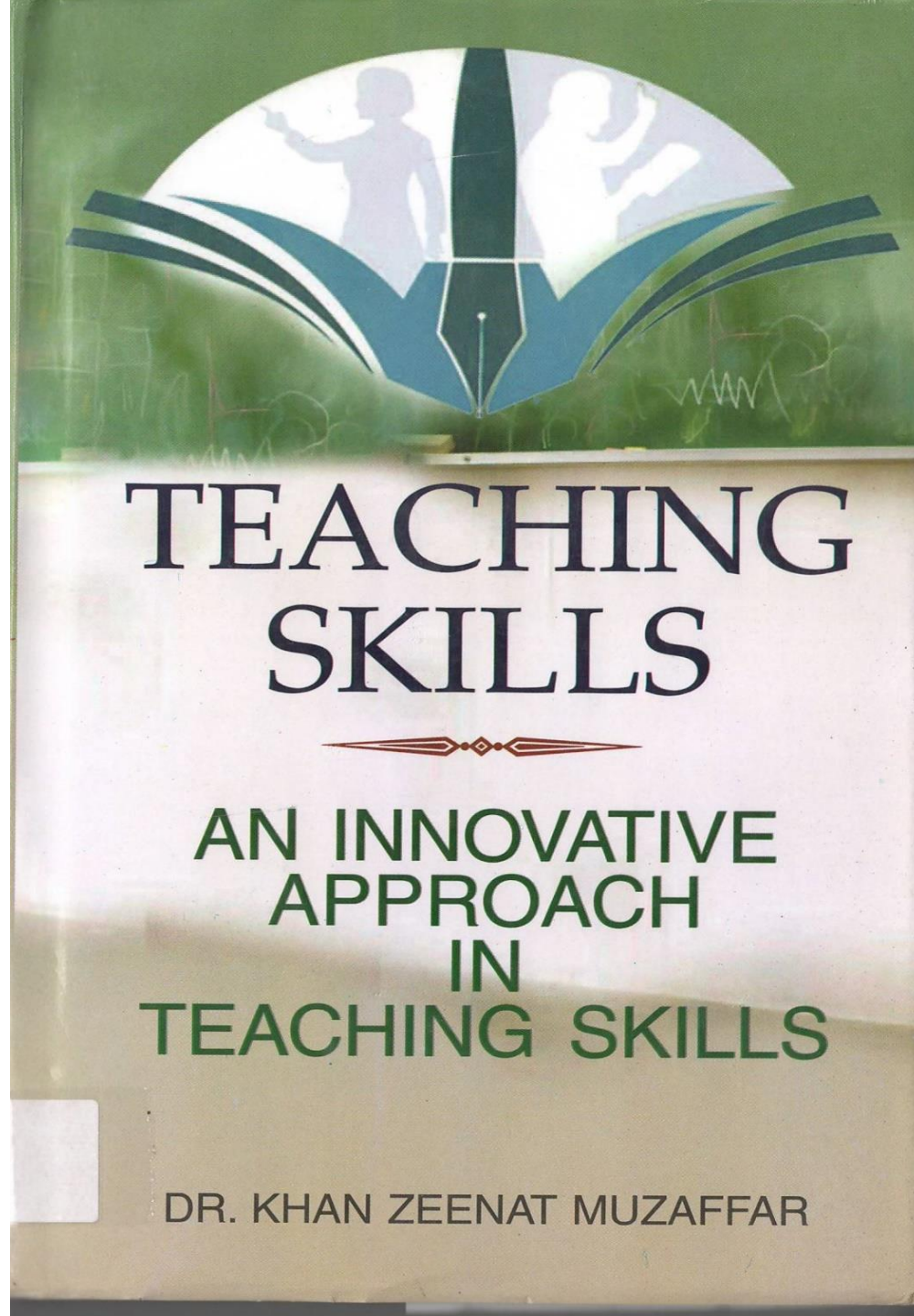
Environmental management is often complicated and multidisciplinary and the issues that arise can be difficult to solve analytically. Often, decision makers take ad hoc approaches, which may result in the ignoring of important stakeholder opinions or decision criteria. Multi-criteria decision analysis (MCDA) provides a framework by which these types of decisions can be made but, despite being used effectively in many fields, it is not often used in environmental management. Given the novelty and inherent applicability of this decision making framework to the environmental field, there is a need...(Recommended by Dr. Raja Raja Varma Murari, Civil Department)



Acc. No : 37931

Call No : 371.102 MUZ-K

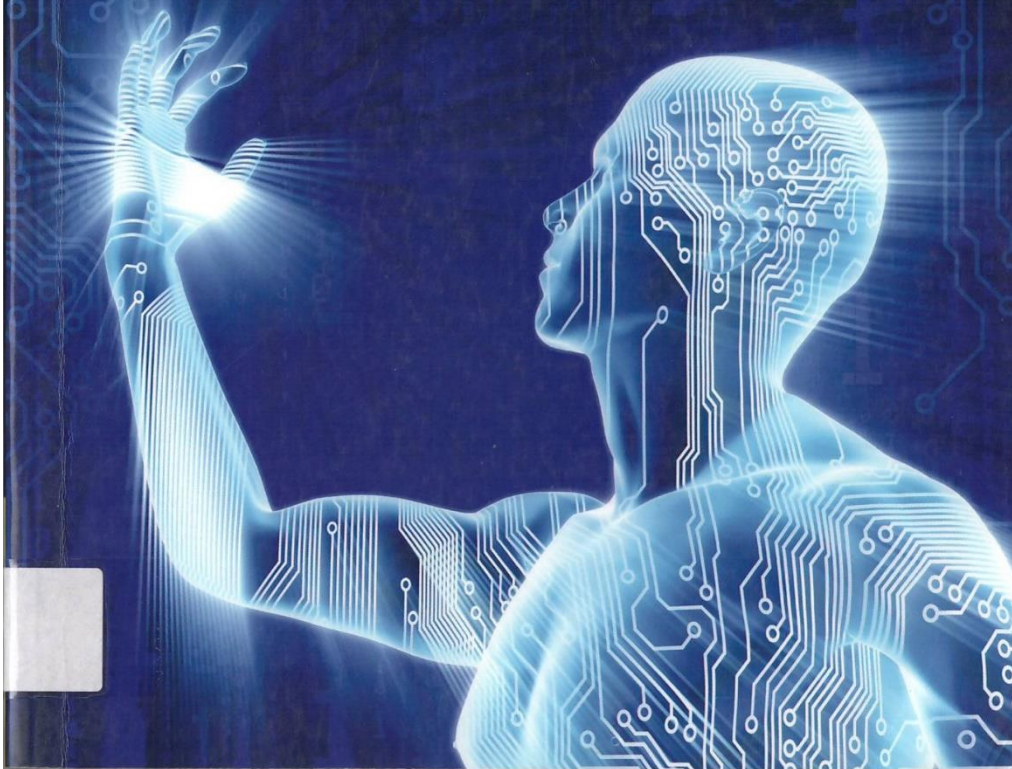
The quality of education that is provided to our children depends upon the quality of teachers. The quality of teachers in which they have received training through teacher's training institutions. The outdated one, with no proper aims and objectives. This book is especially designed for prospective teachers to enhance and nourish their teaching skills by learning and practicing the skills given in this book. Micro-teaching is a teacher training technique which helps the teacher trainee to master the teaching skills. In this book new skills are also introduced in order to cater the changing needs and demands of the teaching fraternity. The learning of these skills will help the prospective teachers to...



INTRODUCING LANGUAGE AND COGNITION

A Map of the Mind

MICHAEL SHARWOOD SMITH



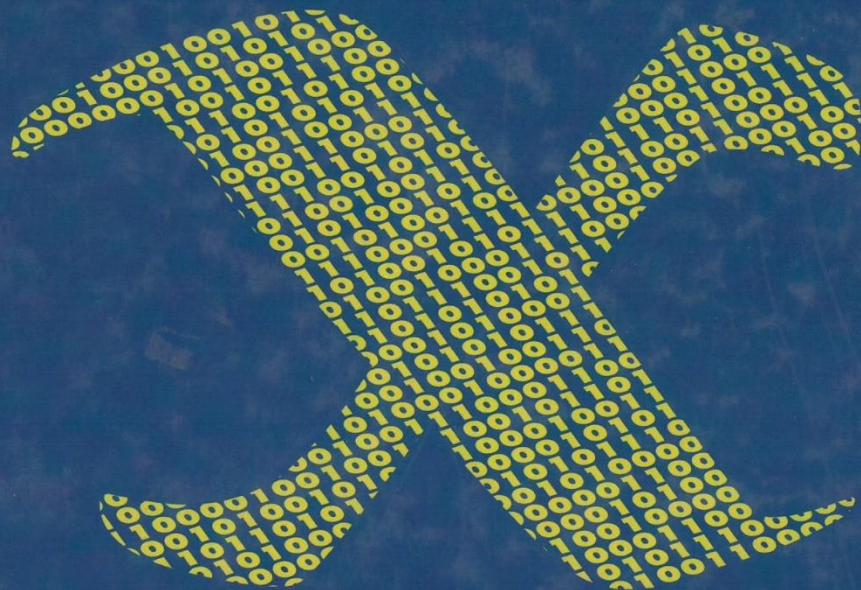
Acc. No : 37829

Call No : 401.9 SMI-M

Providing a solid foundation in second language acquisition, this book has become the leading introduction to the subject for students of linguistics, psychology and education, and trainee language teachers. Now in its third edition, the textbook offers comprehensive coverage of fundamental concepts, including second language acquisition (SLA) in adults and children, in formal and informal learning contexts, and in diverse socio-cultural settings, and takes an interdisciplinary approach, encouraging students to consider...(Recommended by Dr.Pranesh Bhargav, Humanities and Social Sciences Department)

Introduction to

EXPERIMENTAL MATHEMATICS

SØREN EILERS
RUNE JOHANSEN

Acc. No : 37722

Call No : 510.724 EIL-S

Mathematics is not, and never will be, an empirical science, but mathematicians are finding that the use of computers and specialized software allows the generation of mathematical insight in the form of conjectures and examples, which pave the way for theorems and their proofs. In this way, the experimental approach to pure mathematics is revolutionizing the way research mathematicians work. As the first of its kind, this book provides material for a one-semester course in experimental mathematics that will give students the tools and training needed to systematically investigate and...(Recommended by Prof. Addepalli Ramu, Mathematics Department)

DOLCIANI MATHEMATICAL EXPOSITIONS #51

Varieties of Integration

C. RAY ROSENTRATER **AUTHOR**

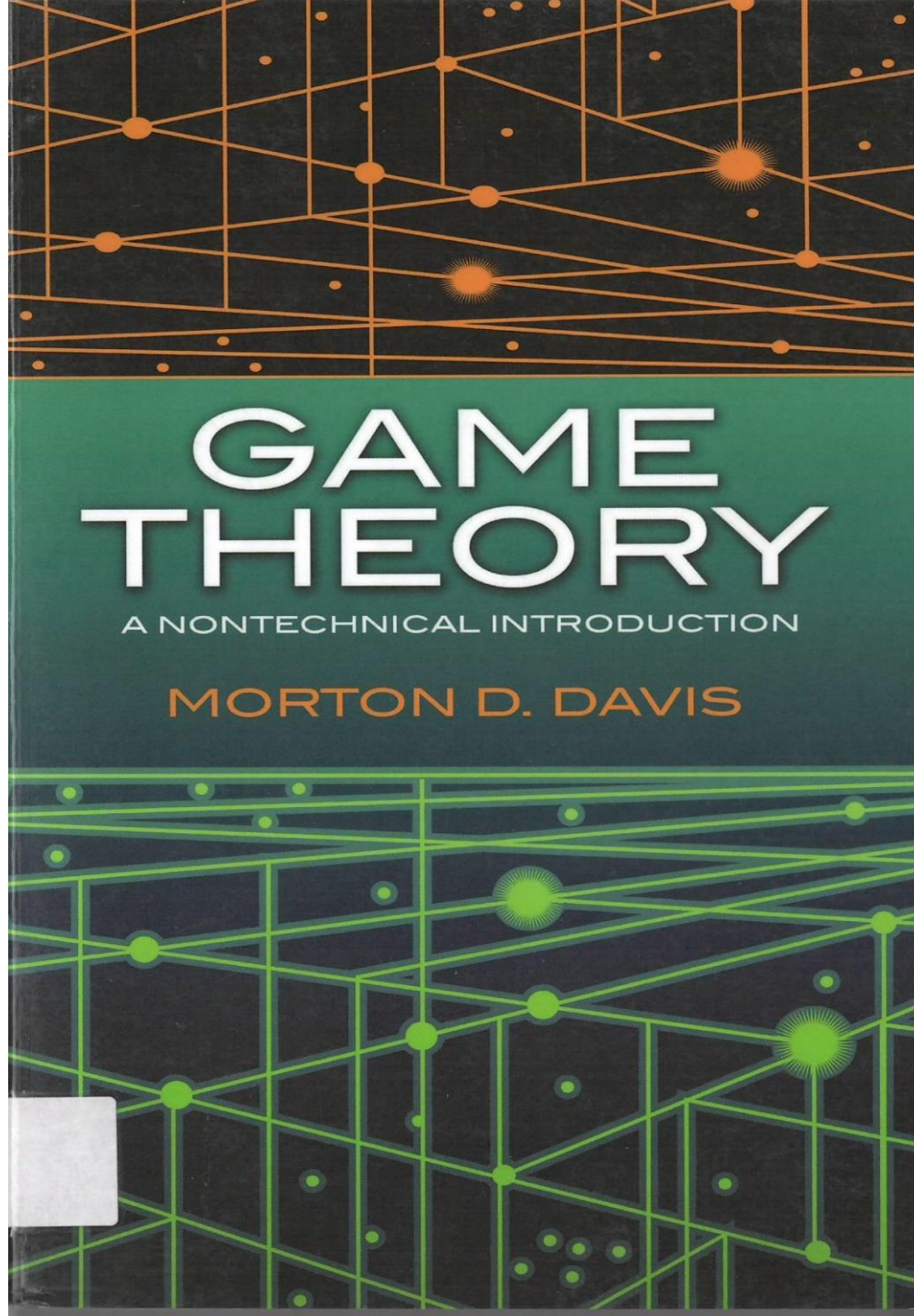
 **MAA PRESS**



Acc. No : 37835

Call No : 515.43 ROS-C

Varieties of Integration explores the critical contributions by Riemann, Darboux, Lebesgue, Henstock, Kurzweil, and Stieltjes to the theory of integration and provides a glimpse of more recent variations of the integral such as those involving operator-valued measures. By the first year of graduate school, a young mathematician will have encountered at least three separate definitions of the integral. The associated integrals are typically studied in isolation with little attention paid to the relationships between them or to the historical issues that motivated their definitions. Varieties of Integration redresses this situation by...(Recommended by Dr. Sumit Kumar Vishwakarma, Mathematics Department)



Acc. No : 37865

Call No : 519.3 DAV-M

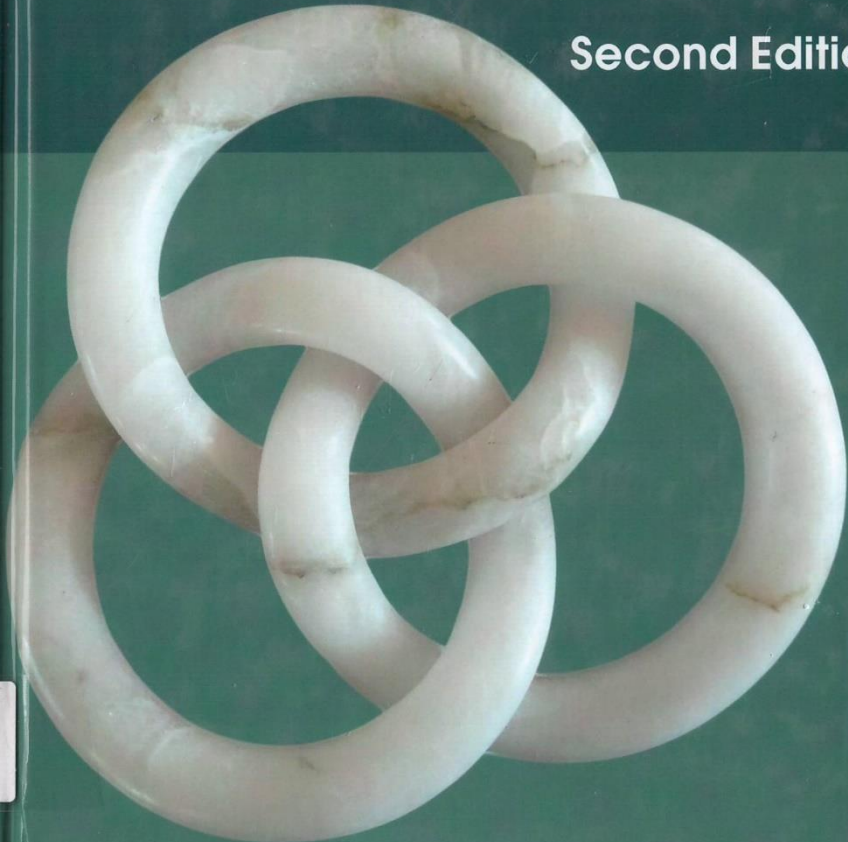
The foundations of game theory were laid by John von Neumann, who in 1928 proved the basic minimax theorem, and with the 1944 publication of the Theory of Games and Economic Behavior, the field was established. Since then, game theory has become an enormously important discipline because of its novel mathematical properties and its many applications to social, economic, and political problems. Game theory has been used to make investment decisions, pick jurors, commit tanks to battle, allocate business expenses equitably even to measure a senator's power, among many other...(Recommended by Mr. Adepu Ajay Prasad, P20110440H)

Ingemar Bengtsson and Karol Życzkowski

Geometry of Quantum States

An Introduction to
QUANTUM ENTANGLEMENT

Second Edition



Acc. No : 37801

Call No : 530.12 BEN-I

Quantum information theory is a branch of science at the frontier of physics, mathematics, and information science, and offers a variety of solutions that are impossible using classical theory. This book provides a detailed introduction to the key concepts used in processing quantum information and reveals that quantum mechanics is a generalisation of classical probability theory. The second edition contains new sections and entirely new chapters: the hot topic of multipartite entanglement; in-depth discussion of the discrete structures in finite dimensional Hilbert space, including unitary operator bases, mutually unbiased bases, symmetric...(Recommended by Mr. Konka Raviteja P20140007H)



PERSPECTIVES ON STATISTICAL THERMODYNAMICS

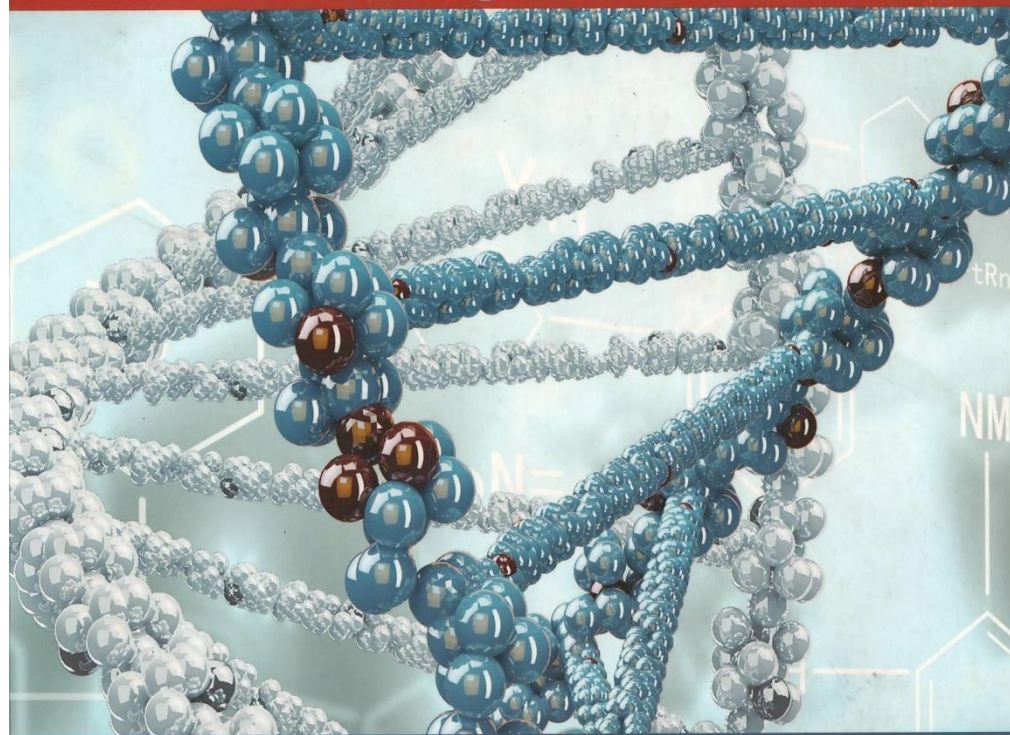
Yoshitsugu Oono

Acc. No : 37831

Call No : 536.7015195 OON-Y

This original text develops a deep, conceptual understanding of thermal physics, highlighting the important links between thermodynamics and statistical physics, and examining how thermal physics fits within physics as a whole, from an empirical perspective. The first part of the book is devoted to elementary, mesoscopic topics such as Brownian motion, which leads to intuitive uses of large deviation theory, one of the pillars of modern probability theory. The book then introduces the key concepts behind statistical thermodynamics, and the final part describes more advanced and applied topics from thermal physics such as phase...(Recommended by Dr. Asraful Haque, Physics Department)

Revised and Enlarged Second Edition



Principles of Molecular Biology



MEDTECH

VEER BALA RASTOGI



Acc. No : 37972

Call No : 572.43 RAS-V

The present book on molecular biology is an attempt to provide the basic, concise but in-depth information about above processes at molecular level. It encompasses molecular structures of biomolecules associated with transmission of biological information. Book designed according to the course of Honours and post graduate level of different universities of India. It gives an extensive but brief coverage of the fundamentals of molecular biology. It describes in lucid language the molecular steps that cell use to replicate and repair DNA expression of genes, process and translate the coded information in mRNA and regulate protein synthesis...(Recommended by Prof. P. Sankar Ganesh, Biology Department)

Principles of Biomedical Instrumentation



Andrew G. Webb

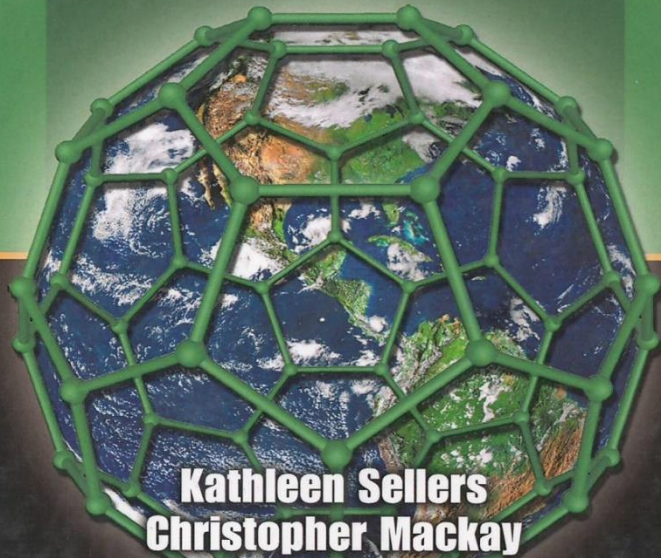


Acc. No : 37791

Call No : 610.284 WEB-A

This accessible yet in-depth textbook describes the step-by-step processes involved in biomedical device design. Integrating microfabrication techniques, sensors and digital signal processing with key clinical applications, it covers: the measurement, amplification and digitization of physiological signals, and the removal of interfering signals; the transmission of signals from implanted sensors through the body, and the issues surrounding the powering of these sensors; networks for transferring sensitive patient data to hospitals for continuous home-monitoring systems; tests for ensuring patient safety; the cost-benefit and...(Recommended by Dr. Rajesh Kumar Tripathy, EEE Department)

Nanotechnology and the Environment



Kathleen Sellers
Christopher Mackay
Lynn L. Bergeson
Stephen R. Clough
Marilyn Hoyt
Julie Chen
Kim Henry
Jane Hamblen

 **CRC Press**
Taylor & Francis Group

Special Indian Edition



Acc. No : 37561

Call No : 620.5 SEL-K

Nano materials unique properties offer revolutionary means to optimize a variety of products, including electronics, textiles, paintings and coatings, pharmaceuticals, and personal care products. However, these same properties mean that nanoscale materials can behave differently in the human body and the environment than conventional materials. Offers a fundamental understanding of the properties of nanoscale materials, their fate and transport in the environment and in wastewater, and the implications for worker safety and the environment. This book discusses the potential use of...(Recommended by Prof. P. Sankar Ganesh, Biology Department)

Nanowire Transistors

Physics of Devices and Materials
in One Dimension

Jean-Pierre Colinge
James C. Greer



Acc. No : 37780

Call No : 621.3815 COL-J

From quantum mechanical concepts to practical circuit applications, this book presents a self-contained and up-to-date account of the physics and technology of nanowire semiconductor devices. It includes a unified account of the critical ideas central to low-dimensional physics and transistor physics which equips readers with a common framework and language to accelerate scientific and technological developments across the two fields. Detailed descriptions of novel quantum mechanical effects such as quantum current oscillations, the metal-to-semiconductor transition and the transition from classical...(Recommended by Dr. Surya Shankar Dan, EEE Department).

Digital Signal Processing with Examples in MATLAB®

SECOND
EDITION

Samuel D. Stearns and Don R. Hush



Special Indian Edition



Acc. No : 37440


Call No : 621.3822 STE-S

Based on fundamental principles from mathematics, linear systems, and signal analysis, digital signal processing (DSP) algorithms are useful for extracting information from signals collected all around us. Combined with today's powerful computing capabilities, they can be used in a wide range of application areas, including engineering, communications, geophysics, computer science, information technology, medicine, and biometrics. Updated and expanded, Digital Signal Processing with Examples in MATLAB®, Second Edition introduces the basic aspects of signal processing and...

World Scientific Series
in FINANCE vol. 8

RISK, VALUE AND DEFAULT

Oliviero Roggi

 World Scientific



Acc. No : 38069

Call No : 658.2 ROG-O

Scholars and practitioners have known for a long time that risk plays an important, indeed central, role in determining the appropriate discount rate to be used in a sophisticated valuation model. In today's world, however, the very risk of survival, especially for financial institutions, is essential to the health of the world's capital markets and their impact on the global economy. Risk, Value and Default is a vital text for understanding the interaction between enterprise risk management with corporate valuation and corporate default. The book seeks to explore the interaction between the risk of default and enterprise risk, and their joint impact on...



Hugo Hens

Building Physics Heat, Air and Moisture

Fundamentals and Engineering Methods
with Examples and Exercises

Third Edition

WILEY

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A Wiley Brand

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Call No : 697 HEN-H

Fundamentals of 5G Mobile Networks provides an overview of the key features of the 5th Generation (5G) mobile networks, discussing the motivation for 5G and the main challenges in developing this new technology. This book provides an insight into the key areas of research that will define this new system technology paving the path towards future research and development. The book is multi-disciplinary in nature, and aims to cover a whole host of intertwined subjects that will predominantly influence the 5G landscape, including the future Internet, cloud computing, small cells and self-organizing networks (SONs), cooperative communications...(Recommended by Dr. Raja Raja Varma Murari, Civil Department).



FOOTBALL

tips

Dan Blank

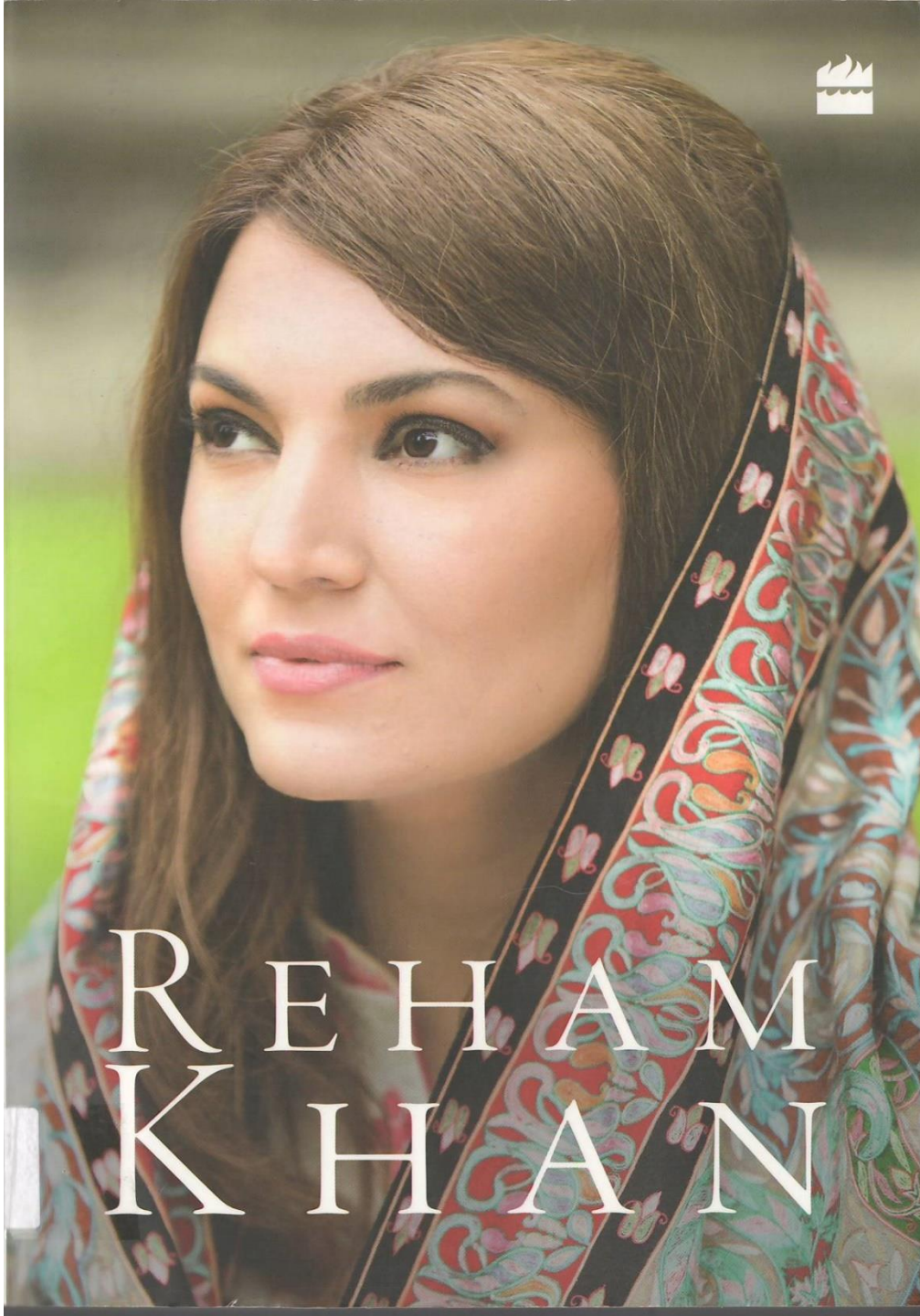
Things
that Smart
Players Do



Acc. No : 36992

Call No : 796.334 BLA-D

Football is a game of split-second decisions. Every move of every player in a team has to be precise and synchronized to win within 90 minutes. Football Tips is all about those little decisions that can change the outcome of a game. Standing on two decades of collegiate coaching experience, Dan Blank has catalogued football's most common mistakes and provides simple, connect-the-dots solutions to help players solve their problems. Blank covers everything from hunting rebounds to the value of the toe-ball; from playing in the rain to the world's dumbest foul. Written in plain-spoken language, this book is an easy read and a quick-fix to the most...



Acc. No : 37898

Call No : 813.54 KHA-R

Reham Khan's eventful life took her from Gaddafi's Libya to Zia's Pakistan and thence to England as a teenage bride, before she returned to Pakistan in her forties. Her life has been one of extraordinary contrasts: she has been through a violent marriage and domestic abuse, and has had to negotiate the murky world of Pakistan politics; but her story also includes the rebuilding of her life after she chose to end her first marriage, raising three children single-handedly and at the same time, building herself a successful career both in the UK and in Pakistan. Reham Khan's story is ultimately one of resilience, strength, courage and conviction. It is the story of a woman who believed in herself and...

SEQUEL TO THE #1 BESTSELLER

EVERYONE HAS A STORY - 2



on **SAVI SHARMA**

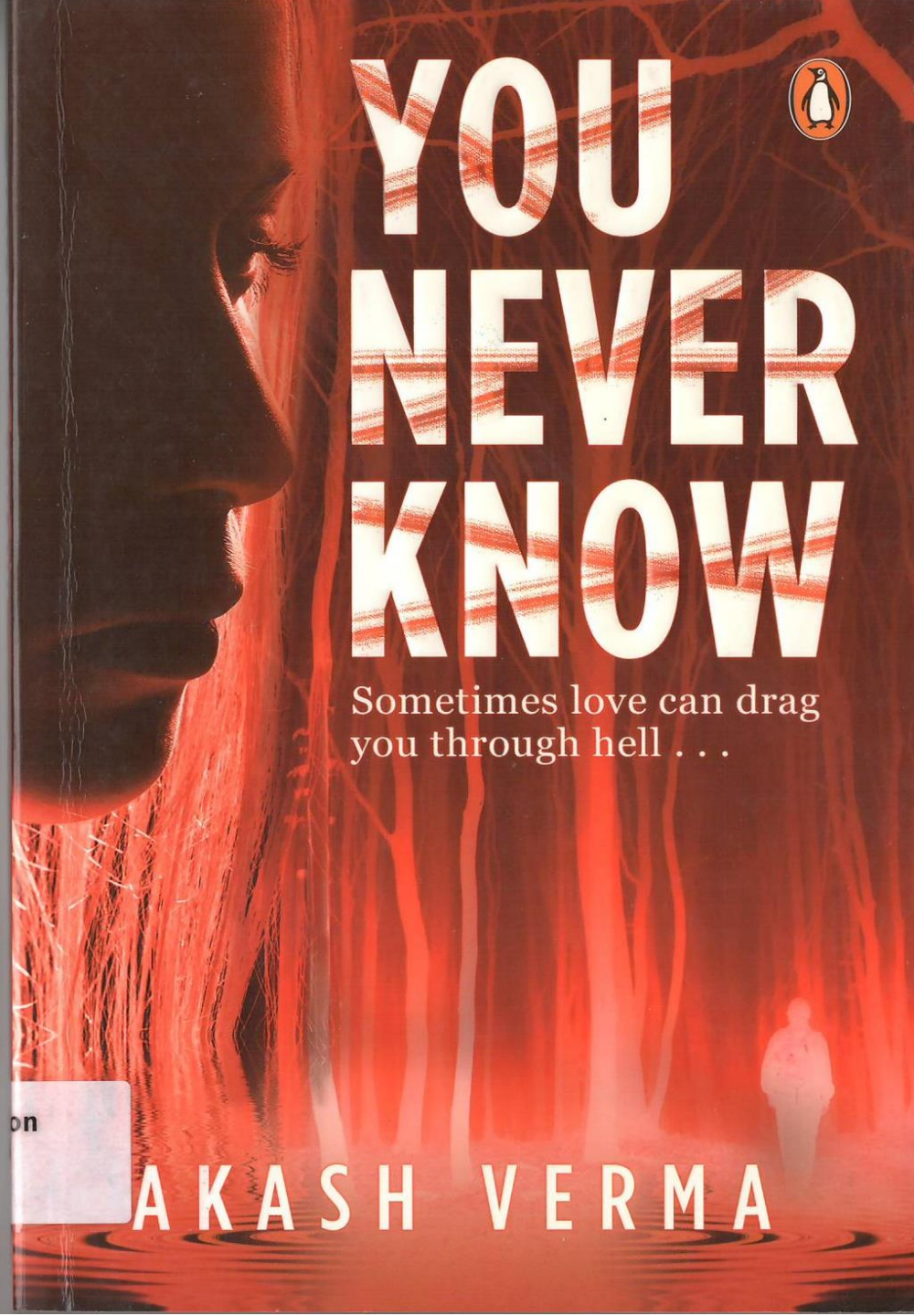
India's highest-selling female author is back
with a breathtaking story of dreams, friendship and love.



Acc. No : 37876

Call No : Fiction SHA-S

Everyone has a story. But does a story end at with a 'happily ever after'? Not always, not even very often. The story always goes on. And life always tests you. I am life's trials. I am fate. And I am here to test your favourite characters, your beloved friends, the people who gave you hope and courage. The very people who made you believe in your dreams. I am here to test Meera, Vivaan, Kabir, Nisha, and many others. I am here to destroy them, and I will. Just wait and watch. Join me as I tell you the next chapters of their stories and where life takes them! Are you ready? Or...



YOU NEVER KNOW

Sometimes love can drag
you through hell . . .

AKASH VERMA



Acc. No : 35234

Call No : Fiction VER-A

There will be times when you feel you have the best relationship, ever . . There will be times when it will be the worst that has happened to you There will be times when you know you are getting into something horrible, something that will not stop till it destroys you, And yet You are pulled so inextricably, unstopably . . . She was my true love, I knew that. So despite being married and having children, I still went ahead with our affair. I hid it from my wife and colleagues. I told lies so I could be with her-it was that amazing! But I couldn't t hide from the dark truth she was keeping. It pulled me into a vortex of danger so deep that I lost all I had. It happened to me and if you think...

PRISM

CHILDREN'S ILLUSTRATED CLASSICS

WUTHERING HEIGHTS

Emily Bronte



innovate

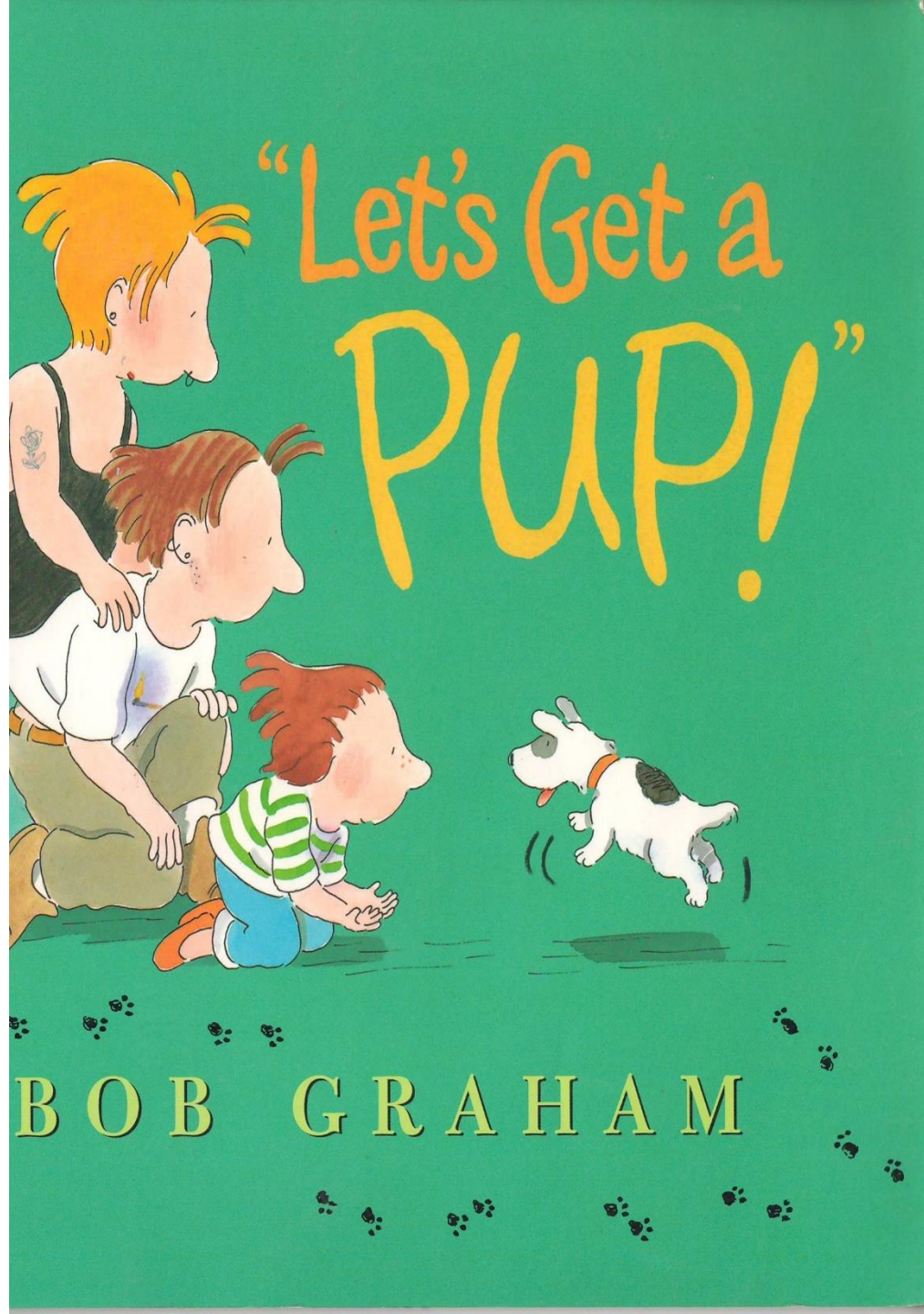
achieve

lead

Acc. No : 35871

Call No : Fiction BRO-E

Wuthering Heights is Emily Brontë's first and only published novel, written between October 1845 and June 1846, and published in 1847 under the pseudonym Ellis Bell; Brontë died the following year, aged 30. The decision to publish came after the success of her sister Charlotte's novel, Jane Eyre. After Emily's death, Charlotte edited the manuscript of Wuthering Heights, and arranged for the edited version to be published as a posthumous second edition in 1850. Wuthering Heights is the name of the farmhouse where the story unfolds. The book's core theme is the destructive effect of jealousy and...



Acc. No : 31042

Call No : Fiction GRA-B

There are lots of dogs of all shapes and sizes at the animal shelter. But Kate and her mom and dad know they want Dave the moment they see him. He is small and cute and a perfect fit for the end of Kate's bed, and he gets excited. But then they see Rosy, who is old and grey and broad as a table. It was difficult for her to get to her feet, but she stood, it seemed, almost politely. Her eyes watered, her ears went back and she radiated Good Intention. How can they take home just one dog when there are so many wonderful animals who need a home? Bob Graham creates an original, endearing family in a touching story that will appeal to animal lovers ...



7A

7A
Library
Literature
Geography

Thank you