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**BITS Pilani**  
Hyderabad Campus

# Artificial Intelligence Enabled Signal Processing based Models for Neural Information Processing



Edited by  
Rajesh Kumar Tripathy and Ram Bilas Pachori



Acc. No : 49848

Call No : 006.3 TRI-R

The book provides details regarding applying various signal processing and artificial intelligence-based methods for electroencephalography data analysis. It will help readers understand the use of electroencephalography signals for different neural information processing and cognitive neuroscience applications. The book covers topics related to the application of signal processing and machine learning-based techniques for the analysis and classification of electroencephalography signals. Presents automated methods for detecting neurological disorders and other applications, such as cognitive task recognition and brain-computer interface. Highlights the latest machine learning and deep learning methods for neural signal processing. Discusses mathematical details for the...



The first part of the visionary prediction for AI

# THE SINGULARITY IS NEAR

**When Humans  
Transcend Biology**

**RAY  
KURZWEIL**

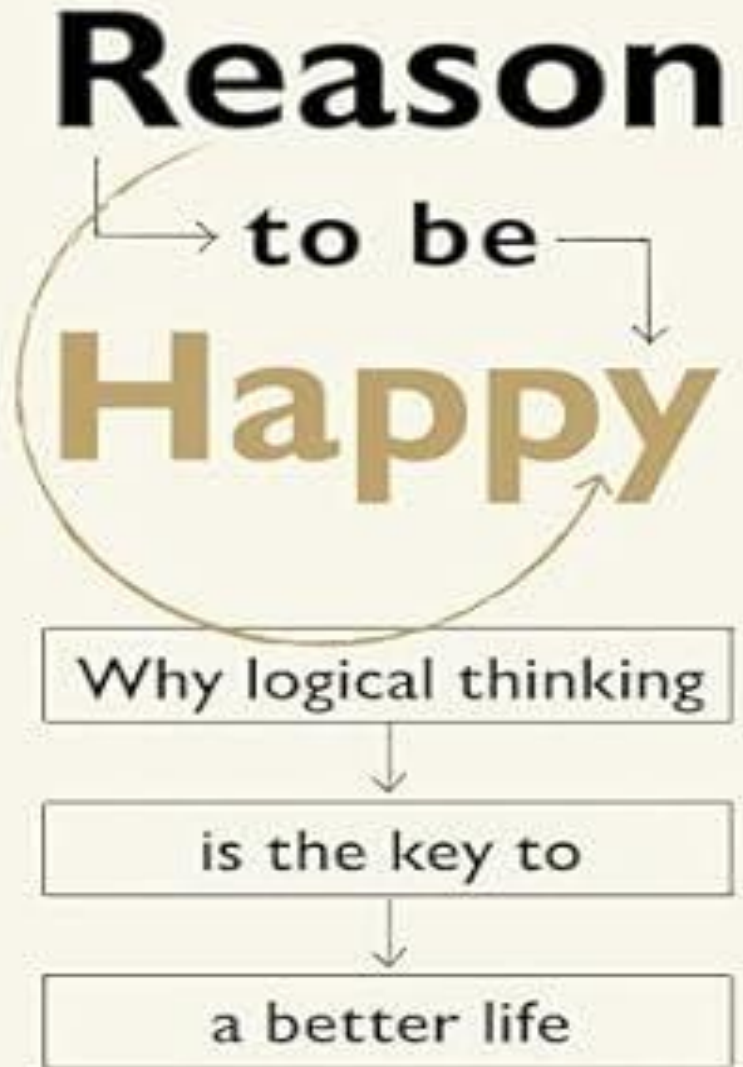
**'The best person I know at predicting the future  
of artificial intelligence.' BILL GATES**



Acc. No : 49222

Call No : 153.9 KUR-R

In his now-classic and hugely influential exploration of the evolving union of human and machine, world-renowned inventor and futurist Ray Kurzweil foresees the dawning of a new civilization where humans will transcend our biological limitations and amplify our creativity by combining our aptitudes with the vastly greater capacity, speed, and knowledge-sharing abilities of Artificial Intelligence. This melding of human and machine is what he terms the singularity. On the eve of the publication of his latest book, *The Singularity is Nearer*, this new edition of the first instalment of his ground-breaking vision offers a fascinating and thought-provoking perspective on decades of innovation and what still lies ahead. For over three decades, Ray Kurzweil has been one of the most respected and...



**Kaushik Basu**  
Former Chief Economist of the World Bank

Acc. No : 49518  
Call No : 158 BAS-K

Why do our friends have more friends than we do? How do you book the best available seats on a plane? And if jogging for ten minutes adds eight minutes to our life expectancy, should we still go jogging? The ability to reason is one of our most undervalued skills. In everyday life, the key is to put yourself in the shoes of a clever competitor and think about how they might respond. Whether you are dealing with events on the scale of the Cuban Missile Crisis or letting go of anger, leading economist Professor Kaushik Basu shows how game theory, the logic of social situations, can help us achieve better outcomes and lasting happiness. Full of fascinating thought experiments and puzzles, Reason to Be Happy is a paean to the power of rationality. If you want to have a good life and even make the world a...



# Ethics and Economics

An Introduction to Free Markets,  
Equality and Happiness

Johan Graafland



Acc. No : 49639

Call No : 174.4 GRA-J

This textbook applies economic ethics to evaluate the free market system and enables students to examine the impact of free markets using the three main ethical approaches utilitarianism, principle-based ethics, and virtue ethics. Ethics and Economics systematically links empirical research to these ethical questions, with a focus on the core topics of happiness, inequality, and virtues. Each chapter offers a recommended further reading list. The final chapter provides a practical method for applying the different ethical approaches to morally evaluate an economic policy proposal and an example of the methodology being applied to a real-life policy. This book will give students a clear theoretical and methodological toolkit for analyzing the ethics of market policies, making it a valuable resource for...



# Mahabharata Unravelled-I

LESSER-KNOWN FACETS OF  
A WELL-KNOWN HISTORY



AMI GANATRA

BLOOMSBURY



Acc. No : 48109

Call No : 294.592 GAN-A

Millennia have passed since the dharma yudhha of the cousins shook the land of Bharata. But this history of our ancestors continues to fascinate us. Even today, we have passionate discussions about the people and their actions in the epic, fervently defending our favourites and denouncing others. The number of works on the Mahabharata adaptations, retellings, and fiction that still get written is a testimony to its enduring relevance. While the general storyline is largely known, a lot of questions and myths prevail, such as What was the geographical extent of the war? Did Drona refuse to take on Karna as his disciple? What were Draupadi's responsibilities as the queen of Indraprastha? Did she ever mock Duryodhana? Were the women in the time of the Mahabharata meek and...



# GOTHIC IN THE OCEANIC SOUTH

MARITIME, MARINE AND AQUATIC UNCANNY IN SOUTHERN WATERS

Edited by  
Allison Craven and Diana Sandars



Acc. No : 49854

Call No : 301.082 CRA-A

This dynamic multidisciplinary collection of essays examines the uncanny, eerie, wondrous, and dreaded dimensions of oceans, seas, waterways, and watery forms of the oceanic South, a haunted global precinct stretching across the Pacific, Southern and Indian Oceans, and around Australasia, Oceania, Aotearoa New Zealand, and South Africa. Presenting work from leading scholars, the chapters contend with the contemporary fears and repressions associated with the return of environmental traumas, colonial traumas, and the spectres of the precolonial deep past that resurface in the present. The book examines the manifestations of these Gothic aesthetics and propensities across a range of watery spaces, seas, oceans, waterholes, and swamps in vessels, ports, shorelines, journeys, strandings, and...



**Acc. No : 49826**

**Call No : 306.096 FAN-F**

A distinguished psychiatrist from Martinique who took part in the Algerian Nationalist Movement, Frantz Fanon was one of the most important theorists of revolutionary struggle, colonialism, and racial difference in history. Fanon's masterwork is a classic alongside Edward Said's *Orientalism* or *The Autobiography of Malcolm X*, and it is now available in a new translation that updates its language for a new generation of readers. *The Wretched of the Earth* is a brilliant analysis of the psychology of the colonized and their path to liberation. Bearing singular insight into the rage and frustration of colonized peoples, and the role of violence in effecting historical change, the book incisively attacks the twin perils of post independence colonial politics: the disenfranchisement of the masses by the elites on...





# MODI & INDIA

## 2024 and the Battle *for* BHARAT

Rahul Shivshankar  
Siddhartha Talya



Acc. No : 49528

Call No : 320.540954 SHI-R

The year 2014 was a consequential one for the Bharatiya Janata Party and India. Will 2024 also be so? Is this election about stopping the rise of Narendra Modi and his alleged distortion of the 'idea of India' as conceived by its founders, or the beginning of a dharma-inspired 'second republic? In 2014, the BJP, under the leadership of Modi, won a clear majority in the Lok Sabha elections. The National Democratic Alliance's triumph ended a nearly two-and-a-half-decade run of mostly messy coalition governments. In 2019, the BJP further improved its tally, cementing its parliamentary majority and its ability to enact transformational laws and policies. Most of the initiatives taken by the Modi-led NDA have been aimed at positioning Bharat as a Vishwa Guru an exemplar of moral righteousness, a pluralistic...

# Biotechnology Entrepreneurship

Leading, Managing and Commercializing  
Innovative Technologies

Second Edition



Craig Shimazaki, PhD, MBA



Acc. No : 48414

Call No : 338.4766 SHI-C

Just looking at the first line, the setting is a place that's threatening to tip over into the unnatural. The uncanny atmosphere is eerily present, like something terrible you can't look away from, and in fact, want to read more of. Here's how the description achieves this: The juxtaposition of a tourist-like welcome and the death imagery that follows. Very physical descriptions of unearthed bones and a city thrumming. Things are given agency that shouldn't have agency. The city, dead children. Intentions and desires are disconnected from people like bodies without a soul. With carefully chosen language and imagery, the blurb transports us to a Buenos Aires that's teeming with the dead. It's what ties the short stories together. We don't need to know about individual characters or plot lines because the setting...





*Spon Research*

# LIFE-CYCLE GREENHOUSE GAS EMISSIONS OF COMMERCIAL BUILDINGS

AN ANALYSIS FOR GREEN-BUILDING  
IMPLEMENTATION USING A GREEN STAR RATING  
SYSTEM

Cuong N. N. Tran, Vivian Tam and Khoa N. Le



Acc. No : 49641

Call No : 363.7 TRA-C

This book develops a model to evaluate and assess life-cycle greenhouse gas emissions based on typical Australian commercial building design options. It also draws comparisons between some of the many green building rating tools that have been developed worldwide to support sustainable development. These include: Leadership in Energy and Environmental Design by the United States Green Building Council, Building Research Establishment Environmental Assessment Method by the Building Research Establishment, Comprehensive Assessment System for Building Environmental Efficiency by the Japanese Sustainable Building Consortium, and Green Star Environmental Rating System by the Green Building Council of Australia. Life-cycle assessment, life-cycle energy...



# QUATERNION AND CLIFFORD FOURIER TRANSFORMS

ECKHARD HITZER

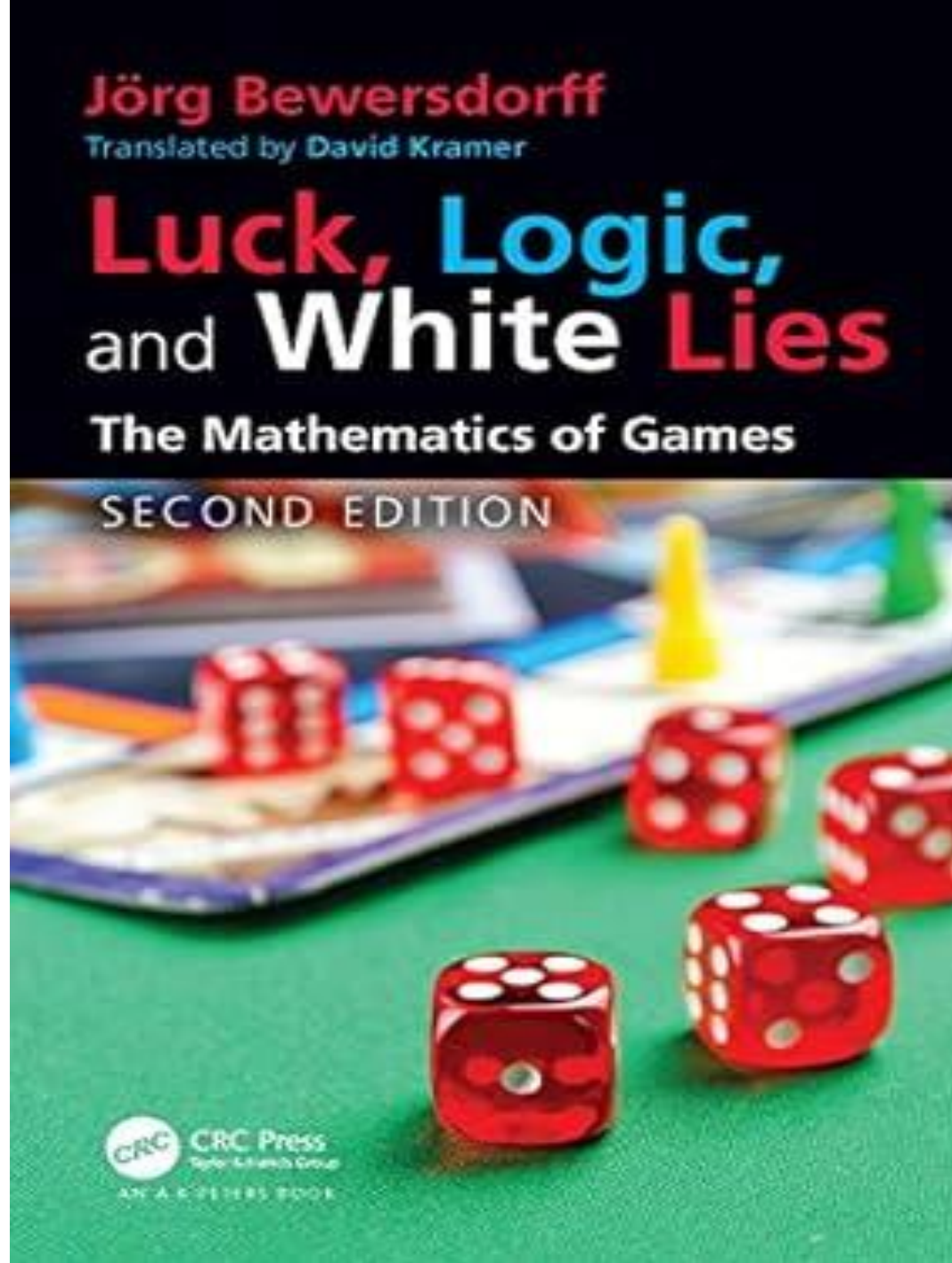
 **CRC Press**  
Taylor & Francis Group  
A CHAPMAN & HALL BOOK

Acc. No : 49657

Call No : 512.5 HIT-E

Quaternion and Clifford Fourier Transforms describe the development of quaternion and Clifford Fourier transforms in Clifford algebra over the last 30 years. It is the first comprehensive, self-contained book covering this vibrant new area of pure and applied mathematics in depth. The book begins with a historical overview, followed by chapters on Clifford, quaternion algebra, and geometric vector differential calculus, part of Clifford analysis. The book's core consists of one chapter on quaternion Fourier transforms and one on Clifford Fourier transforms. These core chapters and their sections on more special topics are reasonably self-contained, so that readers already somewhat familiar with quaternions and Clifford algebra will hopefully be able to begin...

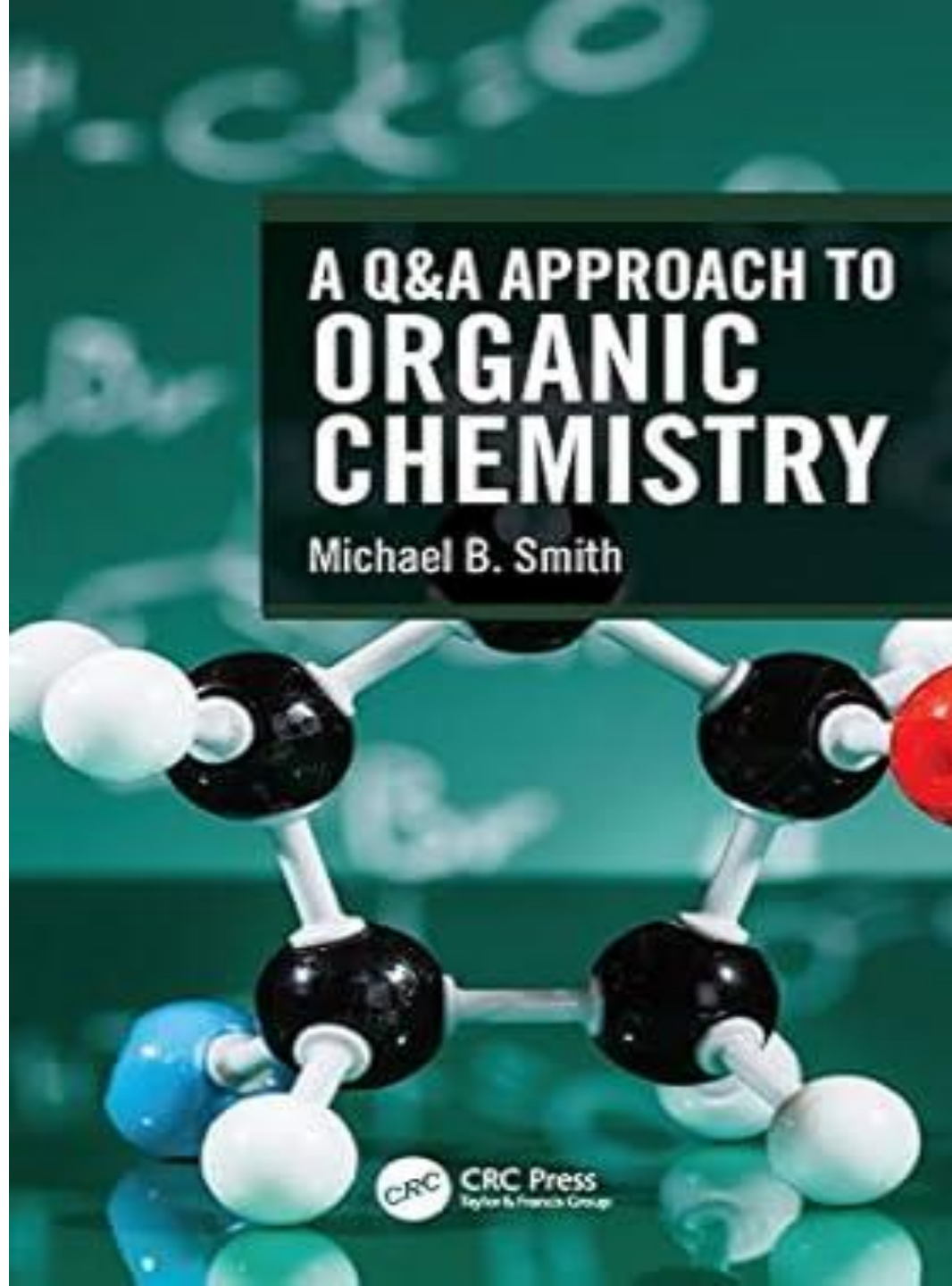




Acc. No : 49575

Call No : 519.3 BEW-J

**Luck, Logic, and White Lies: The Mathematics of Games, Second Edition** considers a specific problem, generally a game or game fragment, and introduces the related mathematical methods. It contains a section on the historical development of the theories of games of chance and combinatorial and strategic games. This new edition features new and much refreshed chapters, including an all-new Part IV on the problem of how to measure skill in games. Readers are also introduced to new references and techniques developed since the previous edition. Provides a uniquely historical perspective on the mathematical underpinnings of a comprehensive list of games. Suitable for a broad audience of differing mathematical levels. Anyone with a passion for games, game theory, and mathematics...



Acc. No : 49633

Call No : 547 SMI-M

A Q&A Approach to Organic Chemistry is a book of leading questions that begins with atomic orbitals and bonding. All critical topics are covered, including bonding, nomenclature, stereochemistry, conformations, acids and bases, oxidations, reductions, substitution, elimination, acyl addition, acyl substitution, enolate anion reactions, the Diels Alder reaction and sigma tropic rearrangements, aromatic chemistry, spectroscopy, amino acids and proteins, and carbohydrates and nucleosides. All major reactions are covered. Each chapter includes end-of-chapter homework questions with the answer keys in an Appendix at the end of the book. This book is envisioned to be a supplementary guide to be used with virtually any available undergraduate organic chemistry...





Acc. No : 49282

Call No : 551.6 CLE-B

Everyone has an interest in the weather, whether it's to check the prospects for a day out or to know when best to harvest a crop. The Earth's weather systems also provide some of the most dramatic forces of nature, from the vast release of energy in a lightning flash to the devastating impact of tornadoes and hurricanes. For centuries, our only real guide to future weather was folklore, but with the introduction of the first weather forecasts and maps in Victorian times, attempts were made to give some warning of the weather to come. Until relatively recently, these forecasts could be wildly inaccurate - think of Michael Fish's denial that there was a storm on the way the night before the UK's great storm of 1987. This was due to the mathematically chaotic nature of weather systems, first discovered in...



# COMPUTATIONAL GENOMICS WITH R

ALTUNA AKALIN

 **CRC Press**  
Taylor & Francis Group  
A CHAPMAN & HALL BOOK

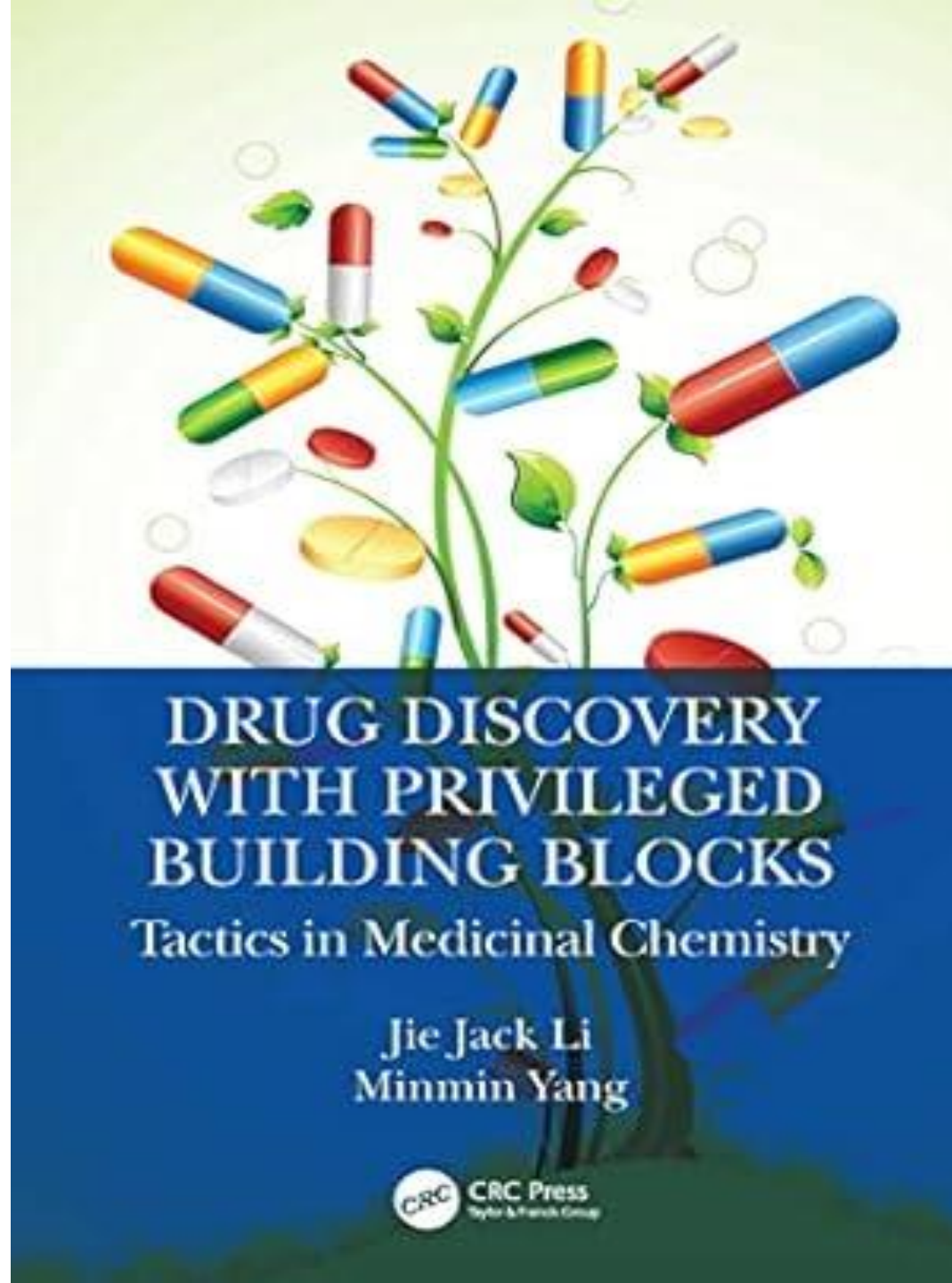


Acc. No : 49560

Call No : 570.285 AKA-A

Computational Genomics with R provides a starting point for beginners in genomic data analysis and also guides more advanced practitioners to sophisticated data analysis techniques in genomics. The book covers topics from R programming, to machine learning and statistics, to the latest genomic data analysis techniques. The text provides accessible information and explanations, always with the genomics context in the background. This also contains practical and well-documented examples in R so readers can analyze their data by simply reusing the code presented. As the field of computational genomics is interdisciplinary, it requires different starting points for people with different backgrounds. For example, a biologist might skip sections on basic genome biology and start with...





Acc. No : 49613

Call No : 615.19 LI-J

Drug Discovery with Privileged Building Blocks traces back to PharmaBlock's founding philosophy of designing privileged building blocks. High-quality building blocks are crucial not only to the biological activities of different molecules but also to ADMET properties, which eventually will impact the success rate of drug discovery projects. A thorough study of how building blocks perform in drug molecules and a regular analysis of new building block structures in the latest research have proven to be a fruitful strategy to generate novel building blocks. Using this strategy, PharmaBlock has supplied the drug industry with a great number of building blocks, which are increasingly being adopted by drug hunters, and these are identified in this book. Each chapter may be read and studied without learning the...

# Self-Healing Cementitious Materials

Technologies, Evaluation Methods,  
and Applications

Ghasan Fahim Huseien, Iman Faridmehr, and  
Mohammad Hajmohammadian Baghban



Acc. No : 49589

Call No : 620.135 HUS-G

Climate change is anticipated to have a major impact on concrete structures through increasing rates of deterioration and the impact of extreme weather events. The repair of any damage will be highly labor-intensive and expensive. Self-healing cementitious materials can enable the construction industry to mitigate these effects and move toward greater sustainability, safety, and increased cost savings and efficiency. This book examines concrete structures based on various materials with self-repair capability and their implications for future use in sustainable projects. Discusses the advantages and design strategies of self-healing concretes. Covers several effective and detailed self-repair methods, with comparative analysis of the advantages and disadvantages of each...





# SENSORS FOR STRETCHABLE ELECTRONICS IN NANOTECHNOLOGY

EDITED BY  
**KAUSHIK PAL**



Acc. No : 49620

Call No : 621.381 PAL-K

**Sensors for Stretchable Electronics in Nanotechnology** discusses the fabrication of semiconducting materials, simple and cost-effective synthesis, and unique mechanisms that enable the fabrication of fully elastic electronic devices that can tolerate high strain. It reviews specific applications that directly benefit from highly compliant electronics, including transistors, photonic devices, and sensors. Discusses ultra-flexible electronics, highlighting its upcoming significance for the industrial-scale production of electronic goods. Outlines the role of nanomaterials in fabricating flexible and multifunctional sensors and their applications in sensor technologies. Covers graphene-based flexible and stretchable strain sensors. Details various applications including wearable electronics, chemical sensors for...



Acc. No : 49576

Call No : 624.1834 BHO-A

## SUSTAINABLE CONSTRUCTION

Development of Eco-Efficient Concrete  
with Plastic and Industrial Wastes

Ankur C. Bhogayata



This book focuses on the utilization of wastes produced from plastic usage by industry and consumers, along with the partial to full replacement of conventional cement as a primary binder material in concrete. This book demonstrates how to use post-consumer waste plastics and industry wastes from thermal power stations, agro-industries, and metal industries with a scientific approach to conventional concrete. The primary aim is to demonstrate the methods to prepare a sustainable alternative construction material of concrete using waste materials. Illustrates making eco-friendly procedures of concrete construction popular by way of the utilization of plastics and industrial waste. Covers all major aspects of plastic waste-based concrete from conception to execution. Promotes alternative...



# Sustainable Technologies for Water and Wastewater Treatment



Edited by  
Noel Jacob Kaleekkal  
Prasanna Kumar S Murali  
Saravanamuthu Vigneswaran  
Upal Ghosh



Acc. No : 49604

Call No : 628.162 KAL-N

Sustainable Technologies for Water and Wastewater Treatment discusses relevant sustainable technologies for water and wastewater treatment about a nanoscale approach to water treatment and desalination, membrane-based technologies for water recovery and reuse, the energy and water nexus, degradation of organic pollutants, nascent technologies, bio and bio-inspired materials for water reclamation and integrated systems, and an overview of wastewater treatment plants. The book focuses on advanced topics, including in situ generation of hydroxyl radicals, which can aid in the indiscriminate oxidation of any contaminant present in wastewater, making advanced oxidation processes commercially viable. A comprehensive review of current and novel water and wastewater treatment...

EDITED BY IAN WALLIS



# THE WORLD'S BEST BUSINESS IDEAS

AMAZING STORIES BEHIND  
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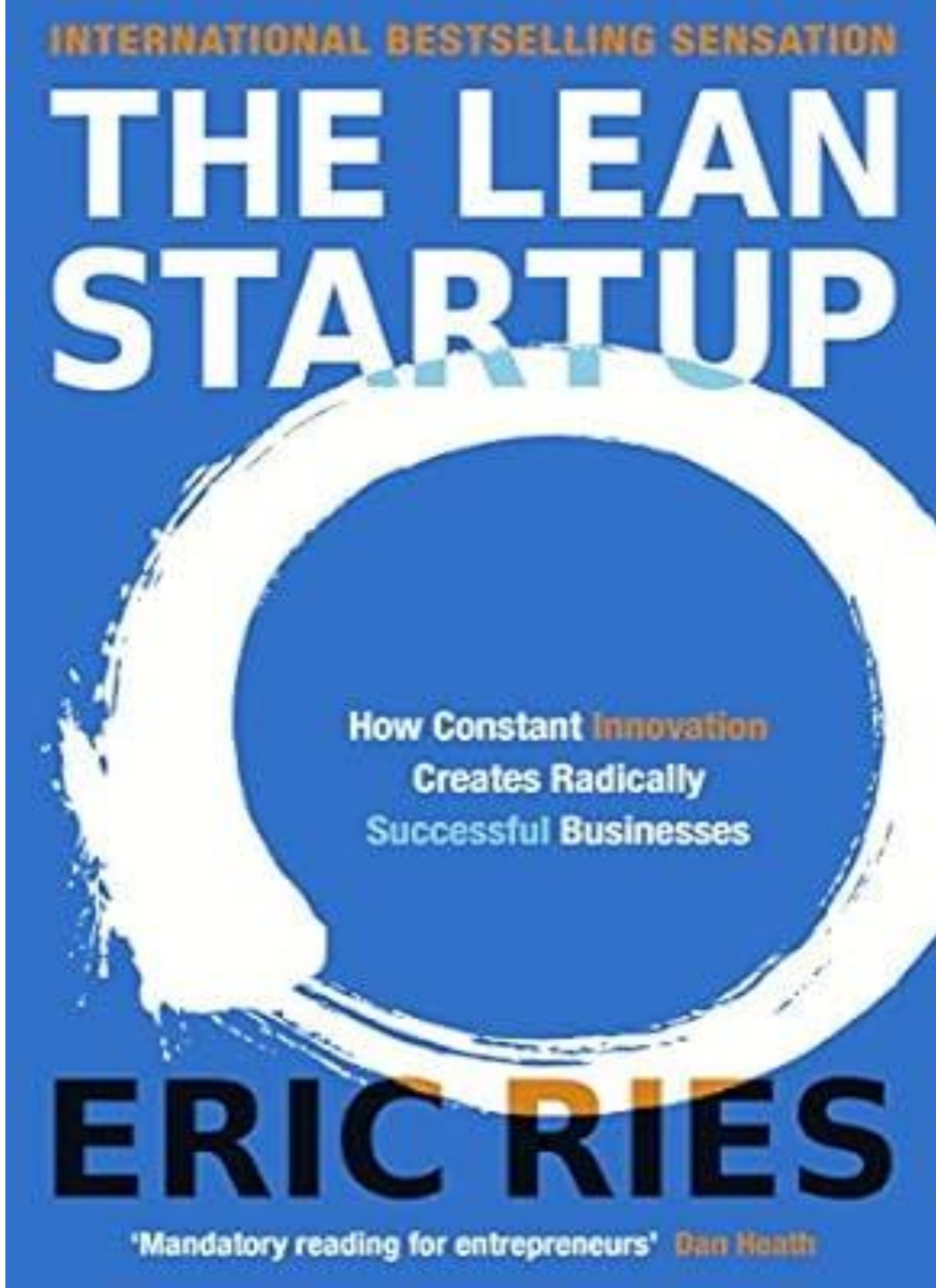


Acc. No : 48713

Call No : 650 WAL-I

Amazing stories behind Google, the Internet, ATMs, Post-its, smart phones, GPS, the PC, and many more. The most important business ideas of the last 50 years! The world has changed more in the last 50 years than in any previous half century in history. Entire industries have been created or transformed by new business ideas. And the way we all work is utterly different today from how it was 50 years ago. Game-changing products invented during this period include the pocket calculator, personal computer, email, payment systems, and GPS. All of them dominate our working lives today. Hard as it is to believe, these did not exist 50 years ago. Who came up with these ideas, and how? This fascinating book tells the stories of the products, the people, and the Companies behind these amazing...



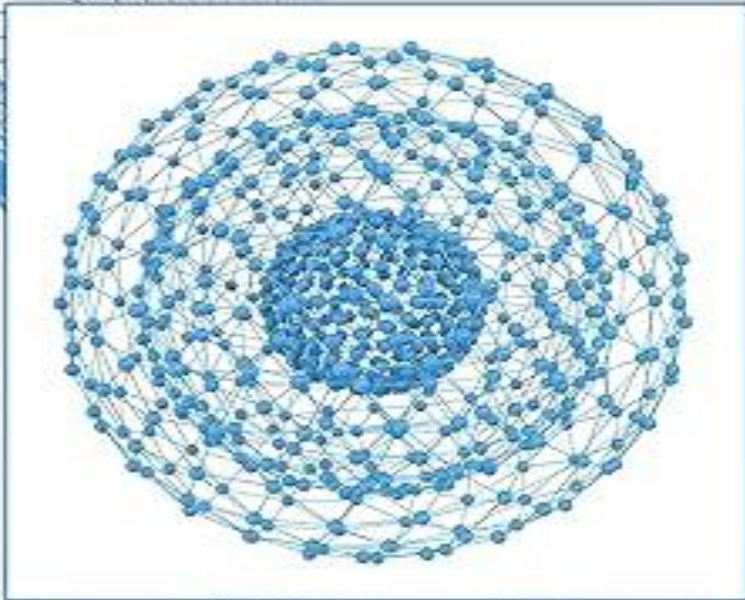


Acc. No : 48407

Call No : 658.11 RIE-E

Most startups fail. But many of those failures are preventable. The Lean Startup is a new approach being adopted across the globe, changing the way companies are built and new products are launched. Eric Ries defines a startup as an organization dedicated to creating something new under conditions of extreme uncertainty. This is just as true for one person in a garage or a group of seasoned professionals in a Fortune 500 boardroom. What they have in common is a mission to penetrate that fog of uncertainty to discover a successful path to a sustainable business. The Lean Startup approach fosters companies that are both more capital efficient and that leverage human creativity more effectively. Inspired by lessons from lean manufacturing, it relies on validated learning...

# NANOTECHNOLOGY FOR SMART CONCRETE



GHASAN FAHIM HUSEIEN  
NUR HAFIZAH A. KHALID  
JAHANGIR MIRZA

Acc. No : 49601

Call No : 666.893 HUS-G

Nanomaterials can markedly improve the mechanical properties of concrete, as well as reduce the porosity and enhance the durability of concrete. The application of nanotechnology in concrete is still in its infancy. However, an ever-growing demand for ultra-high-performance concrete and recurring environmental pollution caused by ordinary Portland cement has encouraged engineers to exploit nanotechnology in the construction industry. Nanotechnology for Smart Concrete discusses the advantages and applications of nanomaterials in the concrete industry, including high-strength performance, microstructural improvement, self-healing, energy storage, and coatings. The book analyses the linkage of concrete materials with nanomaterials and nanostructures. Discusses the...



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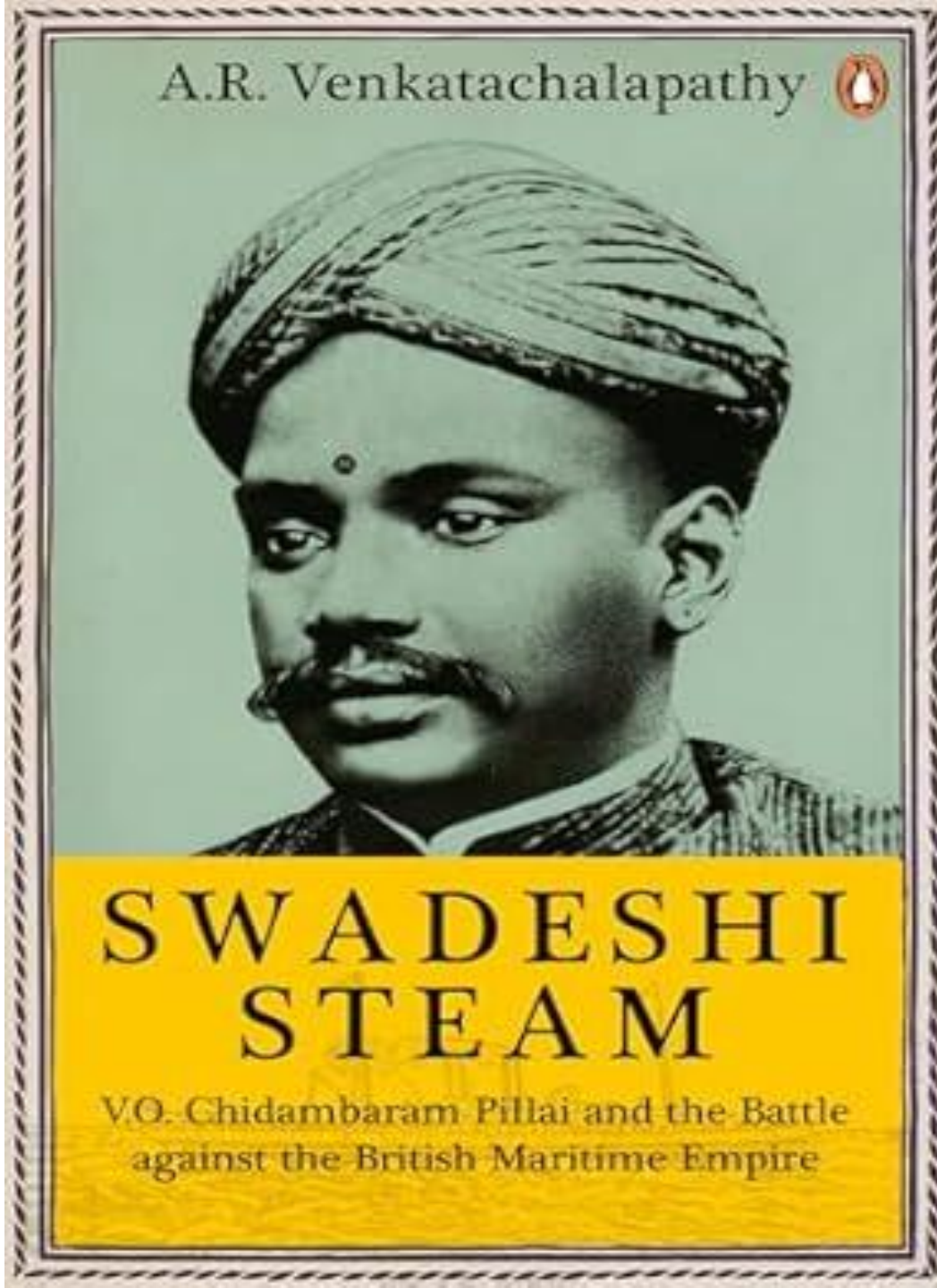
WITH PREVIOUSLY UNSEEN  
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Acc. No : 49836

Call No : 741.5942 ADA-D

A phenomenon across all formats, this 42nd anniversary paperback omnibus contains the complete Hitchhiker's Guide trilogy in five parts, charting the whole of Arthur Dent's Odyssey through space and time. Share and enjoy. Collected together in this omnibus are the five titles that comprise Douglas Adams' wildly popular and wholly remarkable comedy Science fiction trilogy, introductions to each book, expanded material from the Douglas Adams archives, plus a bonus short story, Young Zaphod Plays It Safe, and a special undeleted scene. The Hitchhiker's Guide to the Galaxy, one Thursday lunchtime, the Earth gets unexpectedly demolished to make way for a new hyperspace bypass. For Arthur Dent, who has only just had his house demolished that morning, this seems already to be rather a lot to cope...



Acc. No : 49204

Call No : 954 VEN-A

In 1906, Britain's grip on the world was unassailable. Its navy ruled the seas, and its trade empire spanned the globe. But in the small port town of Tuticorin, a lawyer named V.O. Chidambaram Pillai known to the world as VOC had a revolutionary idea that would challenge the might of the empire itself. VOC's plan was audacious: to launch the Swadeshi Steam Navigation Company, a venture that would compete head-on with the British India Steam Navigation Company, the shipping giant that controlled the region. To make his dream a reality, he rallied native traders and patriotic citizens, raising the capital needed to launch his daring enterprise. But the company faced a formidable foe: British mercantile interests and the imperial state both backed its competitor, giving it deep pockets and brazen...



# RISHI SUNAK

## THE RISE



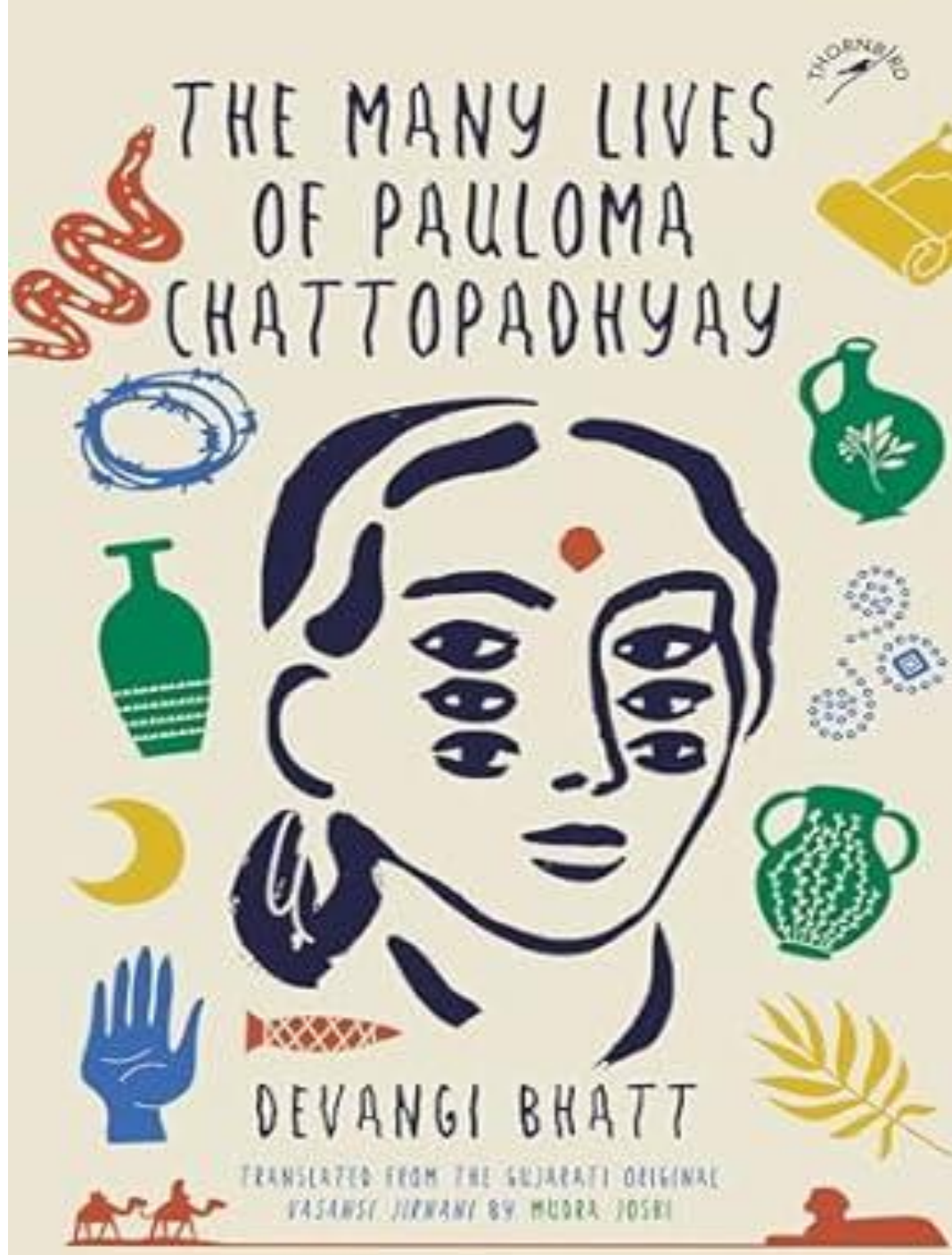
MICHAEL ASHCROFT



Acc. No : 49824

Call No : Biography ASH-M

In the middle of 2019, Rishi Sunak was an unknown junior minister in the local government department. Seven months later, at the age of thirty-nine, he was Chancellor of the Exchequer, grappling with the gravest economic crisis in modern history. Michael Ashcroft's new book charts Sunak's ascent from his parents' Southampton pharmacy to the University of Oxford, the City of London, Silicon Valley, and the top of British politics. Rishi Sunak: The Rise is the tale of a super-bright and hard-grafting son of immigrant parents who marries an Indian heiress and makes a fortune of his own; a polished urban southerner who wins over the voters of rural North Yorkshire and a cautious, fiscally conservative financier who becomes the biggest-spending Chancellor in history. Sunak was...



Acc. No : 49141

Call No : Fiction BHA-D

This is the story of Pauloma Chattopadhyay, a middle-aged housewife living in Kolkata. When an old earthen vessel in the storeroom of her house transports Pauloma to different worlds, the rules of time and space are suspended, puncturing the mundanity of routine. She is whisked to Germany, where she becomes Aurora Miller, Egypt, where she lives as Princess Rabiya Abdi, and Gujarat, where she transforms into the fiery Monghi. The bizarre ensues in full force when Pauloma travels across the eras of Germany under Nazi occupation, Egypt in the throes of a cultural revolution, and post-Independence rural India steeped in superstition. The stories of the three women become increasingly entwined with Pauloma's, who loses her grip on reality. Three desires are most powerful ,Retribution...



A seven-year-old is found dead in a bathroom. Who killed him?



A  
TRUE  
STORY

# THE GURUGRAM SCHOOL MURDER

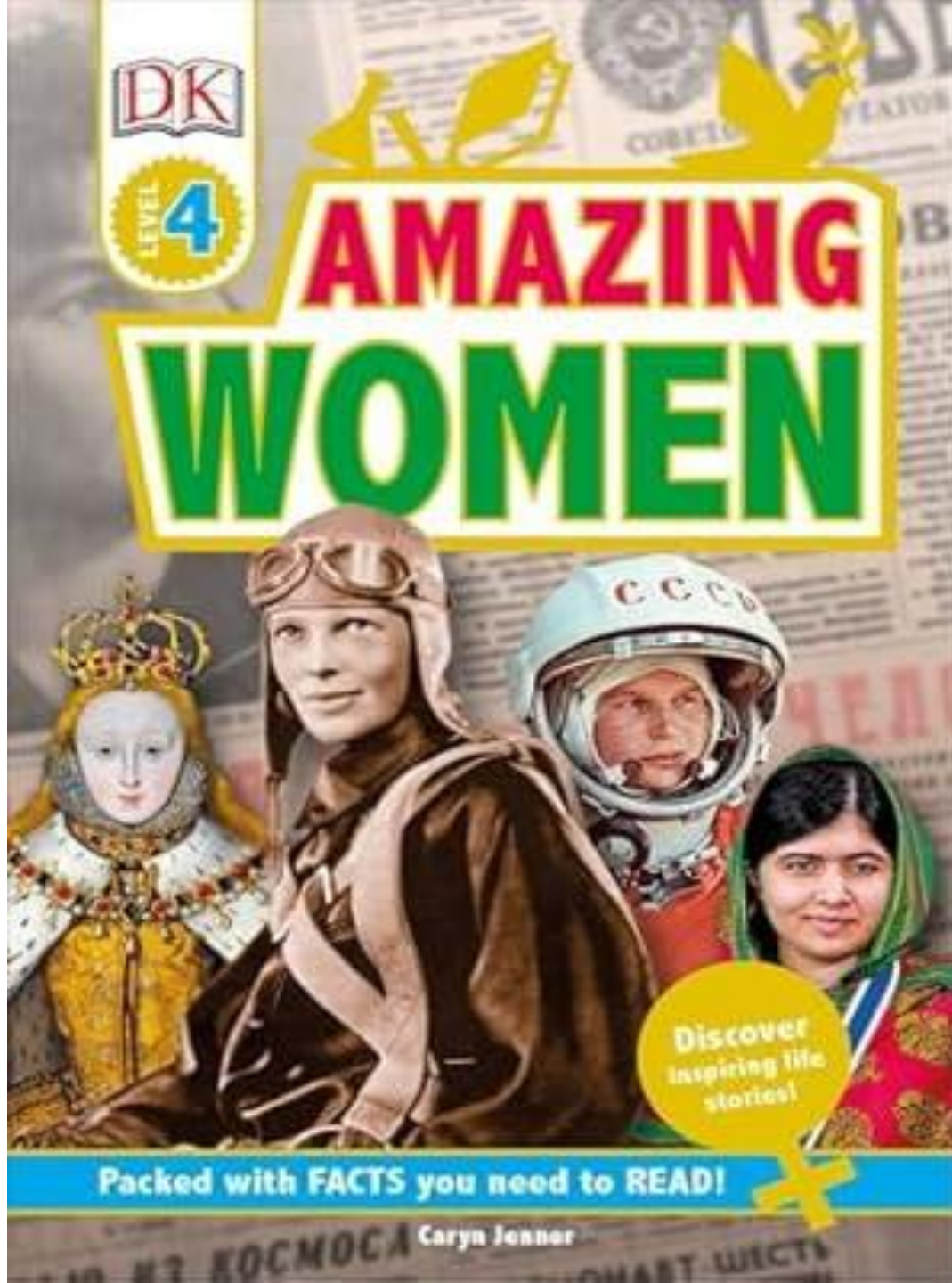
LEENA  
DHANKHAR



Acc. No : 49290

Call No : Fiction DHA-L

On 8 September 2017, a class two student was found murdered in a blood-splattered bathroom of his school in Gurugram. What followed was a bizarre cover-up and destruction of evidence, the framing of an innocent bus conductor by the police, and the subsequent arrest by the CBI of a sixteen-year-old student suspected of brutally murdering the young boy. In this book, investigative journalist Leena Dhankhar untangles the messy threads of the case and takes us behind the scenes of a most horrible crime. She asks and answers the troubling questions that haunt us all. There was nothing unusual about that Friday morning at the Hindustan Times office, a call from one of the sources about a student who had been murdered at a school in Gurugram. When we reached the location, we were...

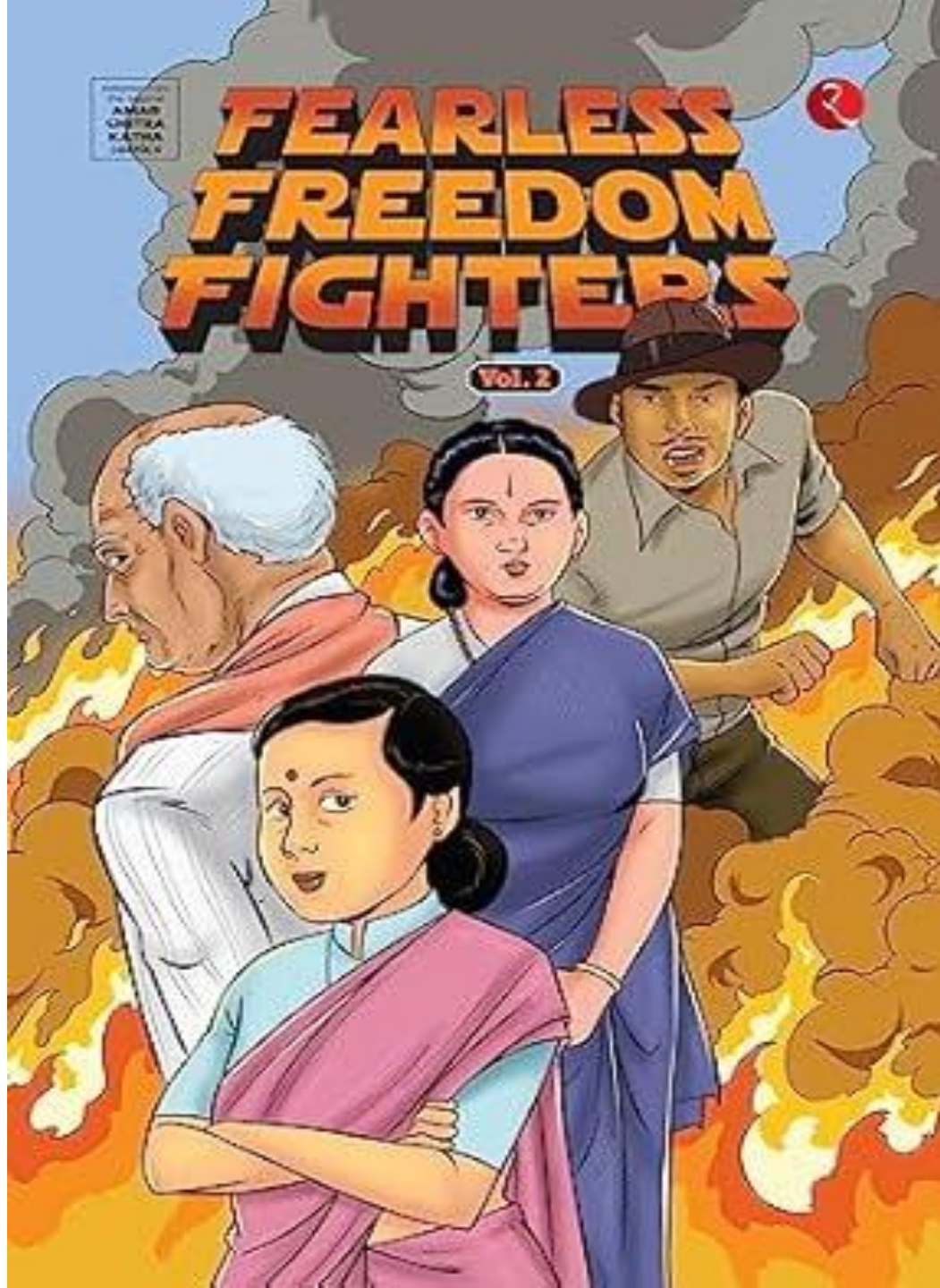


Acc. No : 43888

Call No : 920.72 JEN-C (Young Learners)

From world leaders to explorers to writers, artists, and performers, discover more than 40 women who changed the world and celebrate them this Women's History Month with this Level 4 DK Reader. *Amazing Women* will build reading skills while teaching vocabulary and telling the stories of influential women like Rosa Parks, Amelia Earhart, and Marie Curie, and highlighting important historical moments in women's history, like the Women's Rights Convention in Seneca Falls. Approaching human rights and gender equality from an age-appropriate angle, this book is a sure way to get kids dreaming about what they can achieve. Uncover the stories of the women who have helped shape the modern world in *Amazing Women*, and inspire future leaders along the way. Perfect for 9–11-year-olds reading independently, reading becomes a...





Acc. No : 49453

Call No : Fiction KAP-M (Young Learners)

Usha Mehta ran an underground radio station during the freedom movement and dedicated her life to one goal. Bhagat Singh came from a family of revolutionaries. His courage and undying devotion to his country started when he was a boy and remained strong until the day he died. Sardar Patel's contribution to India as we know it today is unmatched. His story is one of grit and statesmanship. Durgabai Deshmukh stood tall in the face of alarming difficulties and never backed down. She strove to better the lives of women across the country. This book tells the stories of four extraordinary freedom fighters from India, starting from their childhood to what drove them to achieve their goals against all odds. It was 1920, the British had been ruling India for more than 60 years. Discontent and resentment amongst the Indians at the unfair way in...

# Links to Access Library Resources / Services

OPAC Link: <https://bitspilani-hyd-opac.kohacloud.in/>

E-Resources Link: <https://www.bits-pilani.ac.in/hyderabad/library/>

Digital Library: <http://125.22.54.221:8080/jspui/> (within the Campus)

Old Question Papers: <http://125.22.54.221:8080/jspui/handle/123456789/1>  
(within the Campus Only)

Online News Papers: <https://onlinenewspapers.com/india.shtml>





Thank you