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A more intuitive approach to the mathematical foundation of computer science Discrete mathematics is the basis of much of computer science, from algorithms and automata theory to combinatorics and graph

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theory. This textbook covers the discrete mathematics that every computer science student needs to learn. Guiding students quickly through thirty-one short chapters that discuss one major topic each, this flexible book can

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be tailored to fit the syllabi for a variety of courses. Proven in the classroom, Essential Discrete Mathematics for Computer Science aims to teach mathematical reasoning as well as concepts and skills by

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stressing the art of proof. It is fully illustrated in color, and each chapter includes a concise summary as well as a set of exercises. The text requires only precalculus, and where calculus is needed, a quick summary of

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the basic facts is provided.

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**for Computer Science is the ideal
introductory textbook for**

standard undergraduate courses,

and is also suitable for high

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education for adult learners, and self-study. The essential introduction to discrete mathematics Features thirty-one short chapters, each suitable for a single class lesson Includes more than 300 exercises Almost

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**every formula and theorem
proved in full Breadth of content
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variety of courses Each chapter
includes a concise summary
Solutions manual available to
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**of keeping this knowledge alive
and relevant.**

**Ample evidence has been
provided that women historically
have suffered numerous social,
political, and institutional
barriers to their entrance and**

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success in the sciences. The articles in this anthology refocus the discussion and reflect the interdisciplinary nature of the issues surrounding women in the sciences. While the barriers that women have faced as

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researchers, subjects of research, students of science, and theorists have been well documented, this anthology breaks new ground. It presents the ways women succeed in the sciences, overcome these

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**historical barriers, and
contribute to the social practice
of science and the philosophy of
science in both theory and
practice.**

Pure Mathematics

Essential Discrete Mathematics

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for Computer Science

Islamic Science East and West :

Homage to Professor J. M. Millàs

Vallicrosa

Analysis of Images, Social

Networks and Texts

Making Connections

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Quantum of Nightmares

This self-contained text develops a Markov chain approach that makes the rigorous analysis of a class of microscopic models that specify the dynamics of

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complex systems at the individual level possible. It presents a general framework of aggregation in agent-based and related computational models, one which makes use of

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lumpability and information theory in order to link the micro and macro levels of observation. The starting point is a microscopic Markov chain description of the dynamical process in

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complete correspondence
with the dynamical behavior
of the agent-based model
(ABM), which is obtained by
considering the set of all
possible agent
configurations as the state

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space of a huge Markov chain. An explicit formal representation of a resulting “micro-chain” including microscopic transition rates is derived for a class of models by using the random

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mapping representation of a Markov process. The type of probability distribution used to implement the stochastic part of the model, which defines the updating rule and governs the dynamics at

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a Markovian level, plays a crucial part in the analysis of “voter-like” models used in population genetics, evolutionary game theory and social dynamics. The book demonstrates that the

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problem of aggregation in
ABMs - and the lumpability
conditions in particular - can
be embedded into a more
general framework that
employs information theory
in order to identify different

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levels and relevant scales in
complex dynamical systems

This book provides students
with a thorough theoretical
understanding of

electromagnetic field

equations and it also treats a

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large number of applications. The text is a comprehensive two-semester textbook. The work treats most topics in two steps - a short, introductory chapter followed by a

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second chapter with in-
depth extensive treatment;
between 10 to 30
applications per topic;
examples and exercises
throughout the book;
experiments, problems and

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summaries. The new edition includes: modifications to about 30-40% of the end of chapter problems; a new introduction to electromagnetics based on behavior of charges; a new

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section on units; MATLAB tools for solution of problems and demonstration of subjects; most chapters include a summary. The book is an undergraduate textbook at the Junior level,

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intended for required
classes in electromagnetics.
It is written in simple terms
with all details of derivations
included and all steps in
solutions listed. It requires
little beyond basic calculus

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and can be used for self-study. The wealth of examples and alternative explanations makes it very approachable by students. More than 400 examples and exercises, exercising

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problems, many of them

applications or simplified

applications Discusses the

finite element, finite

difference and method of

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moments in a dedicated
chapter

On the occasion of the 75th
+1 anniversary of the
publication of Prof. J. M.
Millàs Vallicrosa's seminal
work *Assaig d'història de les*

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idees físiques i

matemàtiques a la

Catalunya medieval by the

Institut d'Estudis Catalans,

the Commission on the

History of Science and

Technology in Islamic

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Societies (International
Union on History and
Philosophy of Science), the
Grup Millàs Vallicrosa
d'Història de la Ciència Àrab
(Universitat de Barcelona)
and the Societat Catalana

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d'Història de la Ciència i de la Tècnica (Institut d'Estudis Catalans) organized a conference entitled "A Shared Legacy: Islamic Science East and West". At this conference, the Islamic

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Scientific Manuscripts

Initiative, a new joint project for the study of manuscripts, was presented. .Although the papers published in this volume deal with a mixture of subjects and disciplines -

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astronomical instruments,
planetary models, geometry,
medicine, miqat, technology
and cartography - they all
have the transmission of
knowledge between the two
shores of the Mediterranean

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as a common underlying thread...Amb motiu del 75è + 1 aniversari de la publicació del llibre Assaig d'història de les idees físiques i matemàtiques a la Catalunya medieval (IEC), la

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Commission on the History
of Science and Technology
in Islamic Societies
(CHSTIS/IUPHS), el Grup
Millàs Vallicrosa d'Història
de la Ciència Àrab de la
Universitat de Barcelona

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(UB) i la Societat Catalana d'Història de la Ciència i de la Tècnica (SCHCT) -filial de l'Institut d'Estudis Catalans-organitzaren el congrés A Shared Legacy. Islamic Science East and West (Un

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legat compartit: ciència
islàmica a orient i occident).

.Am motiu d'aquesta trobada
s'han recopilat els articles
que conté aquest volum
tracten de temes variats
-instruments astronòmics,

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models planetaris,
geometria, medicina,
tecnologia, cartografia, etc.-
que tenen com a nexa en
comú la transmissió del
coneixement entre les dues
ribes de la Mediterrània.

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Most organisations try to protect their systems from unauthorised access, usually through passwords.

Considerable resources are spent designing secure authentication mechanisms,

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but the number of security breaches and problems is still increasing (DeAlvare, 1990; Gordon, 1995; Hitchings, 1995).

Unauthorised access to systems, and resulting theft

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of information or misuse of the system, is usually due to hackers "cracking" user passwords, or obtaining them through social engineering. System security, unlike other fields

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of system development, has to date been regarded as an entirely technical issue - little research has been done on usability or human factors related to use of security mechanisms.

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Hitchings (1995) concludes that this narrow perspective has produced security mechanisms which are much less effective than they are generally thought to be.

Davis & Price (1987) point

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out that, since security is designed, implemented, used and breached by people, human factors should be considered in the design of security mechanism. It seems that

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currently hackers pay more attention to human factors than security designers do. The technique of social engineering, for instance- obtaining passwords by deception and persuasion-

exploits users' lack of security awareness.

Hitchings (1995) also suggests that organisational factors ought to be considered when assessing security systems. The aim of

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the study described in this paper was to identify usability and organisational factors which affect the use of passwords. The following section provides a brief overview of authentication

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systems along with usability
and organisational issues
which have been identified
to date. 1.

College Geometry

The Finite Element Method:
Its Basis and Fundamentals

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Lotus One-two-three for
DOS

The Furniture Making of
Jonathan Fisher (1768-1847)

Markov Chain Aggregation
for Agent-Based Models

An Introduction to the

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Modern Geometry of the
Triangle and the Circle

***The author's goal is to start a
dialogue between
mathematicians and cognitive
scientists. He discusses, from a
working mathematician's point of***

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***view, the mystery of
mathematical intuition: why are
certain mathematical concepts
more intuitive than others? To
what extent does the "small
scale" structure of mathematical
concepts and algorithms reflect***

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the workings of the human brain? What are the "elementary particles" of mathematics that build up the mathematical universe? The book is saturated with amusing examples from a wide range of disciplines--from

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turbulence to error-correcting codes to logic--as well as with just puzzles and brainteasers. Despite the very serious subject matter, the author's approach is lighthearted and entertaining. This is an unusual and unusually

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fascinating book. Readers who never thought about mathematics after their school years will be amazed to discover how many habits of mind, ideas, and even material objects that are inherently mathematical

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serve as building blocks of our civilization and everyday life. A professional mathematician, reluctantly breaking the daily routine, or pondering on some resisting problem, will open this book and enjoy a sudden return

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to his or her young days when mathematics was fresh, exciting, and holding all promises. And do not take the word "microscope" in the title too literally: in fact, the author looks around, in time and space, focusing in turn on a

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***tremendous variety of motives,
from mathematical ``memes''
(genes of culture) to an unusual
life of a Hollywood star. --Yuri I.
Manin, Max-Planck Institute of
Mathematics, Bonn, and
Northwestern University***

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A unique blend of espionage thrills and Lovecraftian horror, Hugo Award-winning author Charles Stross's Laundry Files continues with Quantum of Nightmares. It's a brave new Britain under the New

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Management. The avuncular Prime Minister is an ancient eldritch god of unimaginable power. Crime is plummeting as almost every offense is punishable by death. And everywhere you look, there are

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***people with strange powers,
some of which they can control,
and some, not so much.***

***Hyperorganized and formidable,
Eve Starkey defeated her boss,
the louche magical adept and
billionaire Rupert de Montfort***

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Bigge, in a supernatural duel to the death. Now she's in charge of the Bigge Corporation—just in time to discover the lethal trap Rupert set for her long ago. Wendy Deere's transhuman abilities have gotten her through

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***many a scrape. Now she's
gainfully employed investigating
unauthorized supernatural
shenanigans. She swore to
herself she wouldn't again get
entangled with Eve Starkey's
bohemian brother Imp and his***

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crew of transhuman misfits.

Yeah, right. Mary Macandless has powers of her own. Right now she's pretending to be a nanny in order to kidnap the children of a pair of famous, Government-authorized

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superheroes. These children have powers of their own, and Mary Macandless is in way over her head. Amanda Sullivan is the HR manager of a minor grocery chain, much oppressed by her glossy blonde boss—who is

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cooking up an appalling, extralegal scheme literally involving human flesh. All of these stories will come together, with world-bending results... "For all of Stross's genuine ability to spook and dismay, The

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Laundry Files are some of the most tremendously humane books I've ever read." —Tamsyn Muir, author of Gideon the Ninth and Harrow the Ninth At the Publisher's request, this title is being sold without Digital Rights

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applied.***

***Very broad overview of the field
intended for an interdisciplinary
audience; Lively discussion of
current challenges written in a
colloquial style; Author is a***

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***rising star in this discipline;
Suitably accessible for beginners
and suitably rigorous for
experts; Features extensive four-
color illustrations; Appendices
featuring homework
assignments and reading lists***

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***complement the material in the
main text***

***On October 23, 1852, Professor
Augustus De Morgan wrote a
letter to a colleague, unaware
that he was launching one of the
most famous mathematical***

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conundrums in history--one that would confound thousands of puzzlers for more than a century. This is the amazing story of how the map problem was solved. The problem posed in the letter came from a former student:

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What is the least possible number of colors needed to fill in any map (real or invented) so that neighboring counties are always colored differently? This deceptively simple question was of minimal interest to

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cartographers, who saw little need to limit how many colors they used. But the problem set off a frenzy among professional mathematicians and amateur problem solvers, among them Lewis Carroll, an astronomer, a

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botanist, an obsessive golfer, the Bishop of London, a man who set his watch only once a year, a California traffic cop, and a bridegroom who spent his honeymoon coloring maps. In their pursuit of the solution,

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mathematicians painted maps on doughnuts and horseshoes and played with patterned soccer balls and the great rhombicuboctahedron. It would be more than one hundred years (and countless colored maps)

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later before the result was finally established. Even then, difficult questions remained, and the intricate solution--which involved no fewer than 1,200 hours of computer time--was greeted with as much dismay as enthusiasm.

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Providing a clear and elegant explanation of the problem and the proof, Robin Wilson tells how a seemingly innocuous question baffled great minds and stimulated exciting mathematics with far-flung applications. This

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is the entertaining story of those who failed to prove, and those who ultimately did prove, that four colors do indeed suffice to color any map.

An Interdisciplinary Guide

Reliable Computer Systems

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***Cambridge IGCSE® Mathematics
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Modeling
Practical Discrete Mathematics
Molecular Modeling and
Simulation***

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This book constitutes the proceedings of the 8th International Conference on Analysis of Images, Social Networks and Texts, AIST 2019, held in Kazan, Russia, in July 2019. The 24 full papers and 10 short papers

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were carefully reviewed and selected from 134 submissions (of which 21 papers were rejected without being reviewed). The papers are organized in topical sections on general topics of data analysis; natural

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language processing; social network analysis; analysis of images and video; optimization problems on graphs and network structures; analysis of dynamic behaviour through event data.

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**appearance of the first
edition 38 years ago, The
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authoritative introductory
text to the method, covering
the latest developments and
approaches in this dynamic**

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exercises • With a new chapter on automatic mesh generation and added materials on shape function development and the use of higher order elements in solving elasticity and field problems Active research has

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shaped The Finite Element Method into the pre-eminent tool for the modelling of physical systems. It maintains the comprehensive style of earlier editions, while presenting the systematic development for the solution

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**of problems modelled by
linear differential equations.
Together with the second and
third self-contained volumes
(0750663219 and
0750663227), The Finite
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(0750664312) provides a**

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**finite element method, by two
of the subject's leading
authors Any professional or
student of engineering
involved in understanding the
computational modelling of
physical systems will
inevitably use the techniques**

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in this key text

**Selected poems probing
man's relationship to nature,
primitive values, and
instinctive actions**

**Handbook of Open Source
Tools introduces a
comprehensive collection of**

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**advanced open source tools
useful in developing software
applications. The book
contains information on more
than 200 open-source tools
which include software
construction utilities for
compilers, virtual-machines,**

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database, graphics, high-performance computing, OpenGL, geometry, algebra, graph theory , GUIs and more. Special highlights for software construction utilities and application libraries are included. Each tool is covered

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in the context of a real like application development setting. This unique handbook presents a comprehensive discussion of advanced tools, a valuable asset used by most application developers and programmers; includes a

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**special focus on Mathematical
Open Source Software not
available in most Open Source
Software books, and
introduces several tools (eg
ACL2, CLIPS, CUDA, and COIN)
which are not known outside
of select groups, but are very**

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powerful. Handbook of Open Source Tools is designed for application developers and programmers working with Open Source Tools. Advanced-level students concentrating on Engineering, Mathematics and Computer Science will

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Extended Coursebook offers complete coverage of the Cambridge IGCSE Mathematics (0580/0980) syllabus. It contains detailed explanations and clear worked examples, followed by practice exercises

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to allow students to consolidate the required mathematical skills. The coursebook offers opportunities for checking prior knowledge before starting a new chapter and testing knowledge with end-of-chapter

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and exam-practice exercises.

Core and Extended materials are presented within the same book and are clearly signposted to allow students to see the range of mathematics required for study at this level. Answers

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are at the back of the book.

Over the last three decades, a significant amount of research has sought to relate educational institutions, policies, practices and reforms to social structures and agencies. A number of

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models have been developed that have become the basis for attempting to understand the complex relation between education and society. At the same time, national and international bodies tasked with

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improving educational performances seem to be writing in a void, in that there is no rigorous theory guiding their work, and their documents exhibit few references to groups, institutions and forces

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that can impede or promote
their programmes and projects.

As a result, the

recommendations these bodies
provide to their clients display
little to no comprehension of
how and under what conditions

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the recommendations can be put into effect. The Education System in Mexico directly addresses this problem. By combining abstract insights with the practicalities of educational reforms, policies, practices and

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their social antecedents, it offers a long overdue reflection of the history, effects and significance of the Mexican educational system, as well as presenting a more cogent understanding of the

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relationship between
educational institutions and
social forces in Mexico and
around the world.

This book will have complete
newcomers producing
spreadsheets after reading just

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one chapter. Subsequent chapters teach additional spreadsheet skills proficiently, and are organized to make the skills available on a need-to-know basis. All versions of Lotus 1-2-3 from 2.0 through 3.1 are

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covered.

This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable

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methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and

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combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences;

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generating functions.

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and Engineering

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Determinants and matrices

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A Shared Legacy

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