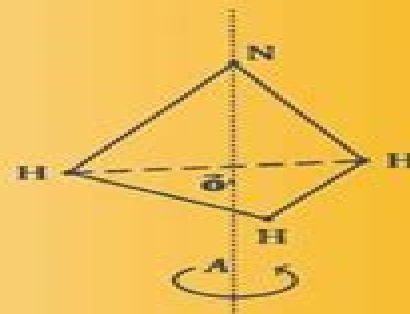
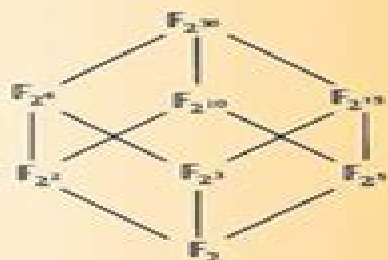


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Number Theory John Stillwell, 2002-12-13 Solutions of equations in integers is the central problem of number theory and is the focus of this book The amount of material is suitable for a one semester course The author has tried to avoid the ad hoc proofs in favor of unifying ideas that work in many situations There are exercises at the end of almost every section so that each new idea or proof receives immediate reinforcement **Notes on Set Theory** Yiannis Moschovakis, 2013-04-17 What this book is about The theory of sets is a vibrant exciting mathematical theory with its own basic notions fundamental results and deep open problems and with significant applications to other mathematical theories At the same time axiomatic set theory is often viewed as a foundation of mathematics it is alleged that all mathematical objects are sets and their properties can be derived from the relatively few and elegant axioms about sets Nothing so simple minded can be quite true but there is little doubt that in standard current mathematical practice making a notion precise is essentially synonymous with defining it in set theory Set theory is the official language of mathematics just as mathematics is the official language of science Like most authors of elementary introductory books about sets I have tried to do justice to both aspects of the subject From straight set theory these Notes cover the basic facts about abstract sets including the Axiom of Choice transfinite recursion and cardinal and ordinal numbers Somewhat less common is the inclusion of a chapter on pointsets which focuses on results of interest to analysts and introduces the reader to the Continuum Problem central to set theory from the very beginning

Elementary Probability Theory Kai Lai Chung, Farid AitSahlia, 2012-11-12 In this edition two new chapters 9 and 10 on mathematical finance are added They are written by Dr Farid AitSahlia ancien eleve who has taught such a course and worked on the research staff of several industrial and financial institutions The new text begins with a meticulous account of the uncommon vocabulary and syntax of the financial world its manifold options and actions with consequent expectations and variations in the marketplace These are then expounded in clear precise mathematical terms and treated by the methods of probability developed in the earlier chapters Numerous graded and motivated examples and exercises are supplied to illustrate the applicability of the fundamental concepts and techniques to concrete financial problems For the reader whose

main interest is in finance only a portion of the first eight chapters is a prerequisite for the study of the last two chapters

Further specific references may be scanned from the topics listed in the Index then pursued in more detail **Groups and**

Symmetry Mark A. Armstrong, 1997-02-27 This is a gentle introduction to the vocabulary and many of the highlights of elementary group theory Written in an informal style the material is divided into short sections each of which deals with an important result or a new idea Includes more than 300 exercises and approximately 60 illustrations *The Joy of Sets* Keith Devlin, 2012-12-06 This book provides an account of those parts of contemporary set theory of direct relevance to other areas of pure mathematics The intended reader is either an advanced level mathematics undergraduate a beginning graduate student in mathematics or an accomplished mathematician who desires or needs some familiarity with modern set theory The book is written in a fairly easy going style with minimal formalism In Chapter 1 the basic principles of set theory are developed in a naive manner Here the notions of set union intersection power set relation function etc are defined and discussed One assumption in writing Chapter 1 has been that whereas the reader may have met all of these 1 concepts before and be familiar with their usage she may not have considered the various notions as forming part of the continuous development of a pure subject namely set theory Consequently the presentation is at the same time rigorous and fast

Short Calculus Serge Lang, 2012-12-06 Praise for the first edition Lang's present book is a source of interesting ideas and brilliant techniques *Acta Scientiarum Mathematicarum* It is an admirable straightforward introduction to calculus *Mathematika* This is a reprint of *A First Course in Calculus* which has gone through five editions since the early sixties It covers all the topics traditionally taught in the first year calculus sequence in a brief and elementary fashion As sociological and educational conditions have evolved in various ways over the past four decades it has been found worthwhile to make the original edition available again The audience consists of those taking the first calculus course in high school or college The approach is the one which was successful decades ago involving clarity and adjusted to a time when the students background was not as substantial as it might be We are now back to those times so its time to start over again There are no epsilons delta but this does not imply that the book is not rigorous Lang learned this attitude from Emil Artin around 1950

Counting: The Art of Enumerative Combinatorics George E. Martin, 2013-03-09 Counting is hard Counting is short for Enumerative Combinatorics which certainly doesn't sound easy This book provides an introduction to discrete mathematics that addresses questions that begin How many ways are there to At the end of the book the reader should be able to answer such nontrivial counting questions as How many ways are there to stack n poker chips each of which can be red white blue or green such that each red chip is adjacent to at least 1 green chip There are no prerequisites for this course beyond mathematical maturity The book can be used for a semester course at the sophomore level as introduction to discrete mathematics for mathematics computer science and statistics students The first five chapters can also serve as a basis for a graduate course for in service teachers Analysis by Its History Ernst Hairer, Gerhard Wanner, 2008-05-30 that departed

from the traditional dry as dust mathematics textbook M Kline from the Preface to the paperback edition of Kline 1972 Also for this reason I have taken the trouble to make a great number of drawings Brieskom Kepler 1615 Dedekind Weierstrass Leibniz 1675 Fermat 1638 In this book with the four chapters Chapter I Introduction to Analysis of the Infinite Chapter II Differential and Integral Calculus Chapter III Foundations of Classical Analysis Chapter IV Calculus in Several Variables we attempt to restore the historical order and begin in Chapter I with Cardano Descartes Newton and Euler s famous Introductio

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