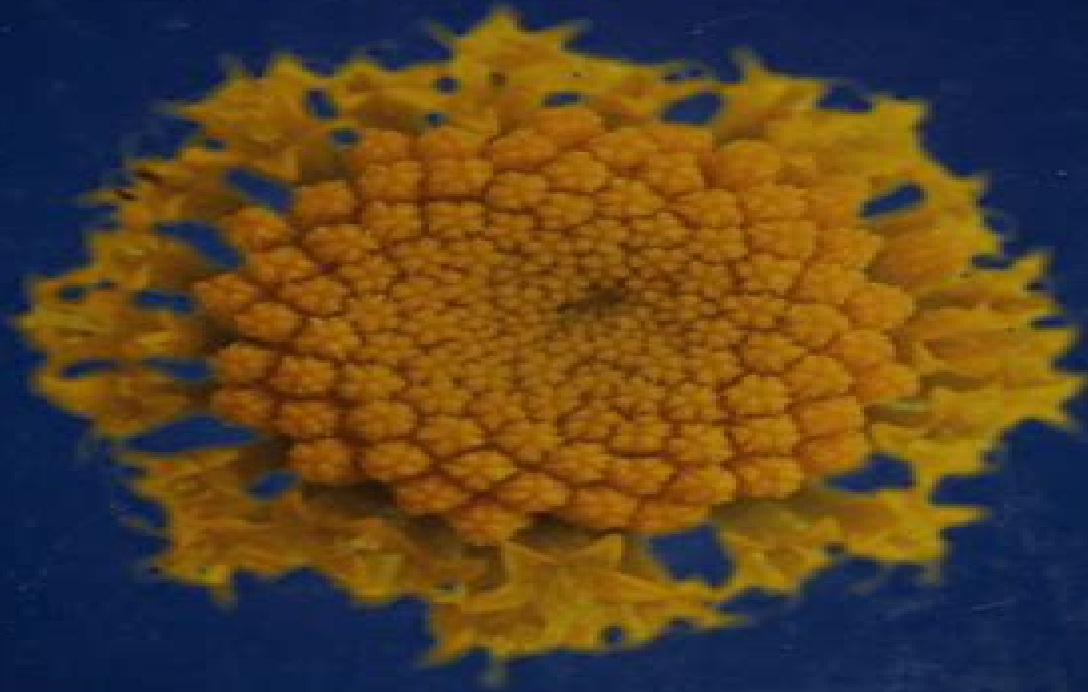


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— *Second Edition* —



DAVID J. HUNTER

Essentials Of Discrete Mathematics 2nd Edition

Richard Bailey



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Simon G. Chiossi, 2022-02-16 This textbook covers topics of undergraduate mathematics in abstract algebra geometry topology and analysis with the purpose of connecting the underpinning key ideas It guides STEM students towards developing knowledge and skills to enrich their scientific education In doing so it avoids the common mechanical approach to problem solving based on the repetitive application of dry formulas The presentation preserves the mathematical rigour throughout and still stays accessible to undergraduates The didactical focus is threaded through the assortment of subjects and reflects in the book's structure Part 1 introduces the mathematical language and its rules together with the basic building blocks Part 2 discusses the number systems of common practice while the backgrounds needed to solve equations and inequalities are developed in Part 3 Part 4 breaks down the traditional outdated barriers between areas exploring in particular the interplay between algebra and geometry Two appendices form Part 5 the Greek etymology of frequent terms and a list of mathematicians mentioned in the book Abundant examples and exercises are disseminated along the text to boost the learning process and allow for independent work Students will find invaluable material to shepherd them through the first years of an undergraduate course or to complement previously learnt subject matters Teachers may pick n mix the contents for planning lecture courses or supplementing their classes

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Science Harry Lewis, Rachel Zax, 2019-03-19 Discrete mathematics is the basis of much of computer science from algorithms and automata theory to combinatorics and graph theory Essential Discrete Mathematics for Computer Science aims to teach mathematical reasoning as well as concepts and skills by 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

Fundamentals of Predictive Analytics with JMP,

Second Edition Ron Klimberg, B. D. McCullough, 2017-12-19 Going beyond the theoretical foundation this step by step book gives you the technical knowledge and problem solving skills that you need to perform real world multivariate data analysis

Multivariable Calculus David Damiano, Margaret Freije, 2012 Written for mathematics science and engineering majors

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A Journey Into Partial Differential Equations William O. Bray, 2012 Part of the International Series in Mathematics Ideal for the 1 term course *A Journey into Partial Differential Equations* provides a solid introduction to PDEs for the undergraduate math engineering or physics student Discussing underlying physics concepts and methodologies the text focuses on the classical trinity of equations the wave equation heat diffusion equation and Laplace s equation Bray provides careful treatment of the separation of variables and the Fourier method motivated by the geometrical notion of symmetries and places emphasis on both the qualitative and quantitative methods as well as geometrical perspectives With hundred of exercises and a wealth of figures *A Journey into Partial Differential Equations* proves to be the model book for the PDE course

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