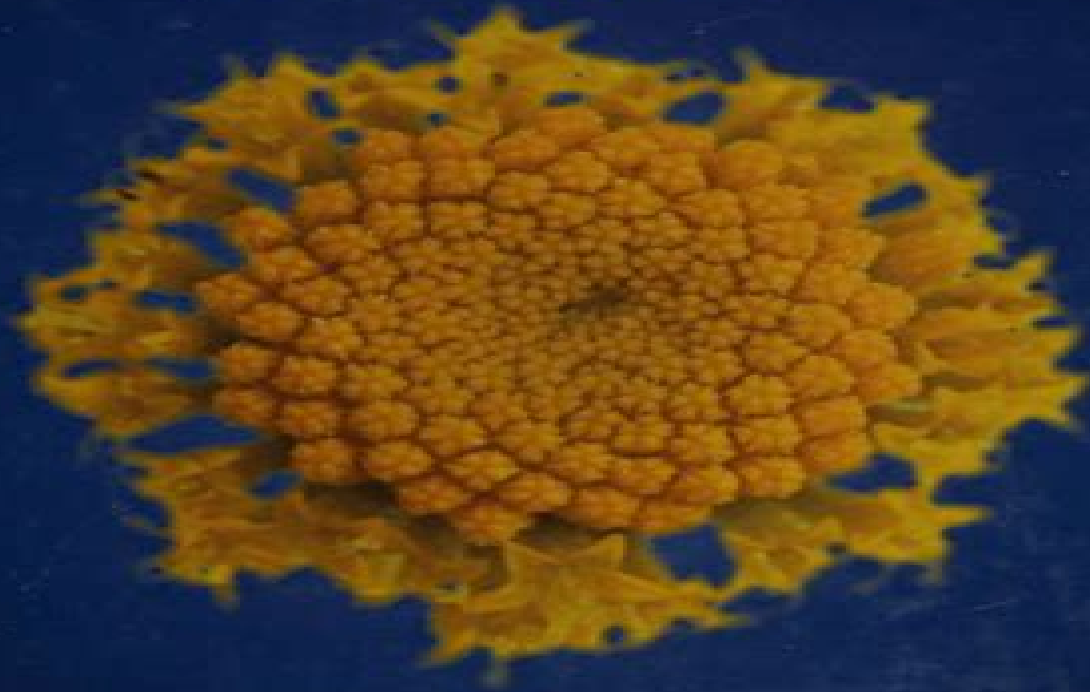


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Multivariable Calculus David Damiano, Margaret Freije, 2012 Written for mathematics science and engineering majors who have completed the traditional two term course in single variable calculus Multivariable Calculus bridges the gap between mathematical concepts and their real world applications outside of mathematics The ideas of multivariable calculus are presented in a context that is informed by their non mathematical applications It incorporates collaborative learning strategies and the sophisticated use of technology which asks students to become active participants in the development of their own understanding of mathematical ideas This teaching and learning strategy urges students to communicate mathematically both orally and in writing With extended examples and exercises and a student friendly accessible writing style Multivariable Calculus is an exciting and engaging journey into mathematics relevant to students everyday lives

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Mathematics for Undergraduates 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the backgrounds needed to solve equations and inequalities are developed in Part 3 Part 4 breaks down the traditional outdated barriers between areas exploring in particular the interplay between algebra and geometry Two appendices form Part 5 the Greek etymology of frequent terms and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 **Essential**

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