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Visual Complex Analysis 1997 this radical first course on complex analysis brings a beautiful and powerful subject to life by consistently using geometry not calculation as the means of explanation aimed at undergraduate students in mathematics physics and engineering the book's intuitive explanations lack of advanced prerequisites and consciously user friendly prose style will help students to master the subject more readily than was previously possible the key to this is the book's use of new geometric arguments in place of the standard calculational ones these geometric arguments are communicated with the aid of hundreds of diagrams of a standard seldom encountered in mathematical works a new approach to a classical topic this work will be of interest to students in mathematics physics and engineering as well as to professionals in these fields

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Visual Complex Functions 2012-08-30 this book provides a systematic introduction to functions of one complex variable its novel feature is the consistent use of special color representations so called phase portraits which visualize functions as images on their domains reading visual complex functions requires no prerequisites except some basic knowledge of real calculus and plane geometry the text is self contained and covers all the main topics usually treated in a first course on complex analysis with separate chapters on various construction principles conformal mappings and riemann surfaces it goes somewhat beyond a standard programme and leads the reader to more advanced themes in a second storyline running parallel to the course outlined above one learns how properties of complex functions are reflected in and can be read off from phase portraits the book contains more than 200 of these pictorial representations which endow individual faces to analytic functions phase portraits enhance the intuitive understanding of concepts in complex analysis and are expected to be useful tools for anybody working with special functions even experienced researchers may be inspired by the pictures to new and challenging questions visual complex functions may also serve as a companion to other texts or as a reference work for advanced readers who wish to know more about phase portraits

Visual Complex Analysis 2023-01-31 complex analysis is the powerful fusion of the complex numbers involving the imaginary square root of 1 with ordinary calculus resulting in a tool that has been of central importance to science for more than 200 years this book brings this majestic and powerful subject to life by consistently using geometry not calculation as the means of explanation the 501 diagrams of the original edition embodied geometrical arguments that for the first time replaced the long and often opaque computations of the standard approach in force for the previous 200 years providing direct intuitive visual access to the underlying mathematical reality this new 25th anniversary edition introduces brand new captions that fully explain the geometrical reasoning making it possible to read the work in an entirely new way as a highbrow comic book

Visual Differential Geometry and Forms 2021-07-13 an inviting intuitive and visual exploration of differential geometry and forms visual differential geometry and forms fulfills two principal goals in the first four acts tristan needham puts the geometry back into differential geometry using 235 hand drawn diagrams needham deploys newton's geometrical methods to provide geometrical explanations of the classical results in the fifth act he offers the first undergraduate introduction to differential forms that treats advanced topics in an intuitive and geometrical manner unique features of the first four acts include four distinct geometrical proofs of the fundamentally important global gauss bonnet theorem providing a stunning link between local geometry and global topology a simple geometrical proof of gauss's famous theorema egregium a complete geometrical treatment of the riemann curvature tensor of an n manifold and a detailed geometrical treatment of einstein's field equation describing gravity as curved spacetime general relativity together with its implications for gravitational waves black holes and cosmology the final act elucidates such topics as the unification of all the integral theorems of vector calculus the elegant reformulation of maxwell's equations of electromagnetism in terms of 2 forms de rham cohomology differential geometry via cartan's method of moving frames and the calculation of the riemann tensor using curvature 2 forms six of the seven chapters of act v can be read completely independently from the rest of the book requiring only basic calculus and geometry visual differential geometry and forms provocatively rethinks the way this important area of mathematics should be considered and taught

Introduction to Complex Analysis 2003-08-28 complex analysis is a classic and central area of mathematics which is studied and exploited in a range of important fields from number theory to engineering introduction to complex analysis was first published in 1985 and for this much awaited second edition the text has been considerably expanded while retaining the style of the original more detailed presentation is given of elementary topics to reflect the knowledge base of current students exercise setshave been substantially revised and enlarged with carefully graded exercises at the end of each chapter this is the latest addition to the growing list of oxford undergraduate textbooks in mathematics which includes biggs discrete mathematics 2nd edition cameron introduction to algebra needham visual complex analysis kaye and wilson linear algebra acheson elementary fluid dynamics jordan and smith nonlinear ordinary differential equations smith numerical solution of partial differential equations wilson graphs colourings and the four colour theorem bishop neural networks forpattern recognition gelman and nolan teaching statistics

Complex Variables 2019 copy the idea of complex numbers dates back at least 300 years to gauss and euler among others today complex analysis is a central part of modern analytical thinking it is used in engineering physics mathematics astrophysics and many other fields it provides powerful tools for doing mathematical analysis and often yields pleasing and unanticipated answers this book makes the subject of complex analysis accessible to a broad audience the complex numbers are a somewhat mysterious number system that seems to come out of the blue it is important for students to see that this is really a very concrete set of objects that has very concrete and meaningful applications features this new edition is a substantial rewrite focusing on the accessibility applied and visual aspect of complex analysis this book has an exceptionally large number of examples and a large number of figures the topic is presented as a natural outgrowth of the calculus it is not a new language or a new way of thinking incisive applications appear throughout the book partial differential equations

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