

The Integral of a Complex Function

$$\text{Let } z = a + bi \quad \int e^{zx} dx = \int e^{(a+bi)x} dx = ?$$

$$\int e^{(a+bi)x} dx = \int e^{ax} \cdot e^{ibx} dx$$
$$= \frac{1}{a} e^{ax} e^{ibx} - \frac{ib}{a} \int e^{ax} \cdot e^{ibx} dx$$

$$\left(1 + \frac{ib}{a}\right) \int e^{ax} \cdot e^{ibx} dx = \frac{1}{a} e^{ax} e^{ibx}$$

$$\int e^{ax} \cdot e^{ibx} dx = \frac{\frac{1}{a} e^{ax} e^{ibx}}{\left(1 + \frac{ib}{a}\right)} = \frac{e^{zx}}{a + ib} = \frac{1}{z} e^{zx}$$

$$\int u dv = uv - \int u dv$$
$$u = e^{ibx} \quad dv = e^{ax} dx$$
$$du = ib e^{ibx} dx$$
$$v = \frac{1}{a} e^{ax}$$

Calculus With Complex Numbers

Huangqi Zhang



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Calculus with Complex Numbers John B. Reade, 2003-03-13 This practical treatment explains the applications complex calculus without requiring the rigor of a real analysis background The author explores algebraic and geometric aspects of complex numbers differentiation contour integration finite and infinite real integrals summation of series and the fundamental theorem of algebra The Residue Theo

Integration with Complex Numbers Brian McMaster, Aisling McCluskey, 2022-04-18 Complex analysis more than almost any other undergraduate topic in mathematics runs the full pure applied gamut from the most subtle difficult and ingenious proofs to the most direct hands on engineering based applications This creates challenges for the instructor as much as for the very wide range of students whose various programmes require a secure grasp of complex analysis Its techniques are indispensable to many but skill in the use of a mathematical tool is hazardous and fallible without a sound understanding of why and when that tool is the right one to pick up This kind of understanding develops only by combining careful exploration of ideas analysis of proofs and practice across a range of exercises

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Calculus, Complex Numbers and Polar Co-ordinates [by H. A. Elliott and Others.] Harold Andrew Elliott, 1972

Complex Numbers and

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Complex Analysis Dennis G. Zill, Patrick D. Shanahan, 2013-09-20 Designed for the undergraduate student with a calculus background but no prior experience with complex analysis this text discusses the theory of the most relevant mathematical topics in a student friendly manner With a clear and straightforward writing style concepts are introduced through numerous examples illustrations and applications Each section of the text contains an extensive exercise set containing a range of computational conceptual and geometric problems In the text and exercises students are guided and supported through numerous proofs providing them with a higher level of mathematical insight and maturity Each chapter contains a separate section devoted exclusively to the applications of complex analysis to science and engineering providing students with the opportunity to develop a practical and clear understanding of complex analysis

The Mathematica syntax from the second edition has been updated to coincide with version 8 of the software

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Mathematics for Physicists Alexander Altland, Jan von Delft, 2019-02-14 This textbook is a comprehensive introduction to the key disciplines of mathematics linear algebra calculus and geometry needed in the undergraduate physics curriculum Its leitmotiv is that success in learning these subjects depends on a good balance between theory and practice Reflecting this belief mathematical foundations are explained in pedagogical depth and computational methods are introduced from a physicist s perspective and in a timely manner This original approach presents concepts and methods as inseparable entities facilitating in depth understanding and making even advanced mathematics tangible The book guides the reader from high school level to advanced subjects such as tensor algebra complex functions and differential geometry It contains numerous worked examples info sections providing context biographical boxes several detailed case studies over 300 problems and fully worked solutions for all odd numbered problems An online solutions manual for all even numbered problems will be made available to instructors

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