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Auteur : Foucault, Michel

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The first part of the document deals with the general principles of the theory of functions of a complex variable. It begins with a discussion of the concept of a domain in the complex plane and the notion of a function defined on that domain. The author then introduces the concept of a regular function, or analytic function, and discusses the conditions under which a function is analytic. This includes the Cauchy-Riemann equations and the concept of a power series expansion. The text then proceeds to discuss the properties of analytic functions, such as the uniqueness theorem and the principle of analytic continuation. The final part of the document deals with the theory of residues and the evaluation of definite integrals using contour integration.

Weisman



The second part of the document discusses the theory of residues and the evaluation of definite integrals using contour integration. It begins with a discussion of the concept of a pole of a function and the residue of a function at a pole. The author then introduces the concept of a contour integral and discusses the conditions under which a contour integral is independent of the contour. This leads to the residue theorem, which states that the integral of a function around a closed contour is equal to 2πi times the sum of the residues of the function inside the contour. The text then applies this theorem to the evaluation of definite integrals, showing how to choose a contour that encloses the poles of the integrand and how to evaluate the integral using the residue theorem. The final part of the document deals with the theory of conformal mappings and the Schwarz lemma.

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