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iv 4.5.3 Complexification of the Integrand 62 4.5.4 An Example with a More Subtle Choice of Contour . . . 63 4.5.5 Making the Spurious Part of ...

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We now consider functions of a complex variable and develop a theory of differentiation for them. The main goal of the chapter is to introduce analytic functions, which play a central role in complex analysis. 12. FUNCTIONS OF A COMPLEX VARIABLE Let S be a set of complex numbers.

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other texts in complex variables by emphasizing how to use complex vari-able methods. Throughout the text, many of the important theoretical results in complex function theory are followed by relevant and vivid examples in physical sciences. These examples serve to illustrate the uses and implications of complex function theory.

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This book summarizes the main outlines of complex analysis, and the theory of functions of complex variables. It discusses complex analysis within various fields, such as : properties of complex numbers, mappings, elementary functions, series, analytic and harmonic functions and integrals.

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