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The Stokes Phenomenon, Borel Summation and Mellin-Barnes Regularisation

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About the eBook

This book presents a radical theory for the Stokes phenomenon by introducing the concept of regularization. Two methods of regularization, Borel summation and Mellin-Barnes Regularization, are used to derive general expressions for the regularized values of asymptotic expansions throughout the complex plane.

Contents

- ▶ Stokes's First Example
- ▶ Dingle's Rules and Theory of Terminants
- ▶ Regularisation
- ▶ Asymptotics for the Error Function
- ▶ Contemporary Views of the Stokes Phenomenon
- ▶ Mellin-Barnes Regularisation
- ▶ Numerics of MB-Regularised Forms
- ▶ Generalised Terminants

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