Differential Equations in the Real Domain

Introduction
Elementary Methods of Integration
The Existence and Nature of Solutions of Ordinary Differential Equations
Continuous Transformation-Groups
The General Theory of Linear Differential Equations
Linear Equations with Constant Coefficients
The Solution of Linear Differential Equations in an Infinite Form
The Solution of Linear Differential Equations by Definite Integrals
The Algebraic Theory of Linear Differential Systems
The Sturmian Theory and its Later Developments
Further Developments in the Theory of Boundary Problems
Differential Equations in the Complex Domain
Existence Theorems in the Complex Domain
Equations of the First Order But Not of the First Degree
Non-Linear Equations of Higher Order
Linear Equations in the Complex Domain
The Solution of Linear Differential Equations in Series
Equations with Irregular Singular Points
The Solution of Linear Differential Equations by Methods of Contour Integration
Systems of Linear Equations of the First Order
Classification of Linear Differential Equations of the Second Order with Rational Coefficients
Oscillation Theorems in the Complex Domain
Historical Note on Formal Methods of Integration
Numerical Integration of Ordinary Differential Equations
List of Journals Quoted in Footnotes to the Text

Bibliography
Index of Authors
General index

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.