

## Advanced Differential Equations, (Revised Edition)



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### ***Reviews***

*The book is simple in read safer to comprehend. It is writter in straightforward words and phrases instead of confusing. You wont truly feel monotony at anytime of your time (that's what catalogues are for concerning in the event you request me).*

***(Brannon Koch)***

## ADVANCED DIFFERENTIAL EQUATIONS, (REVISED EDITION)



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S. Chand & Company Ltd 0. Softcover. Book Condition: New. 5th or later edition. 1. This book is especially prepared for B.A., B.Sc. and Honours (Mathematics and Physics), M.A./M.Sc.(Mathematics and Physics), B.E. Students of Various Universities and for I.A.S., P.C.S., AMIE, GATE, CSIR, UGC, NET and Various Competitive Examinations. 2. References to the latest papers of various universities IAS and GATE etc. have been made at proper places. 3. Four new chapters, namely, `Chebyshev Polynomials`, `Beta & Gamma Functions`, `Power Series and Transport Equation` have been added in this edition. 4. A set of objective problems (including those asked in various Universities, GATE etc.) has been provided at the end of each chapter. 5. Almost each chapter of this book has been enlarged and rearranged so that in the present form, the reader will not find any difficulty in understanding the subject matter. 6. More solved examples have been added so that the reader may gain more confidence in the techniques of solving problems. 7. Errors and omissions of the previous edition have been corrected. CONTENTS: Part I : ADVANCED ORDINARY DIFFERENTIAL EQUATIONS AND SPECIAL FUNCTIONS : 1. Picard`s Iterative Methods Uniqueness and Existence Theorem 2. Simultaneous Differential Equations of the form  $(dx)/p=(dy)/Q=(dz)/R$  3. Total (or Pfaffian) Differential Equations 4. Riccati`s Equation 5. Chebyshev Polynomials 6. Beta and Gamma Functions 7. Power Series 8. Integration in Series 9. Legendre Polynomials : Part I : Legendre Function of the First Kind Part II Associated Legendre Functions of the First Kind 10. Legendre Functions of the Second Kind 11. Bessel Functions 12. Hermite Polynomials 13. Laguerre polynomial 14. Hypergeometric Function 15. Orthogonal set of Function and Sturm-Liouville Problems Part II : PARTIAL DIFFERENTIAL EQUATIONS : 1. Origin of Partial Differential Equations 2. Linear Partial Differential Equations of Order one 3. Non-linear Partial Differential...



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