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Every engineer wants to have a strong background in mathematics. This book is comprehensive, you will find all the important topics related to calculus, algebra, differential equations, integration and more. It provides complete solutions for all types of engineering problems along with worked out examples and exercises. This book is an essential tool for any student or professional who wants an excellent foundation in mathematics that will give them a head start in any area of civil engineering. This solution manual has been created by incorporating mathematical theory with its application in real-life scenarios by engineers. The book contains all the topics of higher level engineering mathematics including differential equations, integral calculus, contour integration, optimization, vector calculus etc. It can be used by both students and professionals. This book provides an ideal solution to the real world problems of engineers by providing solutions to all types of college level problems. This is an essential tool for every engineering student or professional who wants good foundation in mathematics that will give them a head-start in any area of civil engineering. It aims at providing an excellent base for learning mathematics for all Engineering students and professionals with emphasis on numerical methods like integration, differentiation, numerical optimization etc. The essential requirement of Engineering Mathematics, has been taken into account while preparing the theory. B.S. Grewal had more than forty-five years of teaching experience in Mathematics and Physics at the college level and thirty-two years experience in Civil Engineering. He has authored more than twenty scientific papers and made numerous presentations in seminars and conferences organised by companies, government institutions and universities among others. His book " Differential Equations " is very popular among the students of Physics, Chemical, Civil and Electrical Engineering. He was a Life member of Indian Science Congress Association, Life Member of Punjab Science Writers Association, Life Member of Punjab Scientific Research Society, Life Member of Panjab University Teachers Association etc. Dr B.S. Grewal is a retired Professor of Mathematics and a retired Recipient of Honorary Life Membership from INSA, Chandigarh. He worked as a Lecturer in University of Chandigarh, Lecturer in Panjab University and as Assistant Professor in Physical Education Department at Government College, Batala. He also served as the Head of Department for Mathematics and Physics at Batala Government College from 1973 to 1978 and as Professor at Panjab University, Chandigarh from 1982 to 1986. Dr. Grewal also served as a Visiting Scientist at the Centre for Development of Advanced Computing (C-DAC), Hyderabad from September 1984 to June 1985 and as a Visiting Research Fellow at CSIR-Central Electronics Engineering Research Institute (CEERI), Bangalore from October 1990 to September 1991. He designed and supervised the construction of an Electronic Differential Analyzer (EDA) for which he was awarded the National Award by C-DAC, Hyderabad in 1988. He has more than forty papers published in national and international journals and has written over 350 research reports on computers, satellites and oceanography etc.

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