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Ordinary and Partial Differential Equations: Third Year College Course for Mathematicians, Physicists, and Engineers

By Mohamed F. El-Hewie

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 330 pages. Dimensions: 9.0in. x 6.0in. x 0.8in. This book comprises a course in differential equations, which students of engineering, physics, and mathematics complete as a requirement of bachelor in science degree. The reader must possess basic skills in calculus, since all elementary differentiations and integrations in this book assume that the student could visually spot the derivation from previous years in high school or college. The book is organized in the logical fashion as presented to college students. The ordinary differential equations (o. d. e.) are first studied in great details, since partial differential equations (p. d. e.) must be rendered ordinary by separation of variables so as yield meaningful solution. When separation of variables is untenable (such as in nonlinear partial differential equations), then referrals to numerical solutions are given. Within the scope of o. d. e. , first- and second-order differential equations are discussed in details, also since equations of higher orders could be reduced in order by successive methods of substitutions, discussed in the book. Also, within the scope of o. d. e. , equations with constant coefficients are dealt...

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