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Peter V. O'Neil

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A broad introduction to PDEs with an emphasis on specialized topics and applications occurring in a variety of fields

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The *Third Edition* is organized around four themes: methods of solution for initial-boundary value problems; applications of partial differential equations; existence and properties of solutions; and the use of software to experiment with graphics and carry out computations. With a primary focus on wave and diffusion processes, Beginning Partial Differential Equations, Third Edition also includes:

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- The incorporation of MapleTM to perform computations and experiments
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- Advanced topical coverage of special functions, such as Bessel, Legendre polynomials, and spherical harmonics
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