#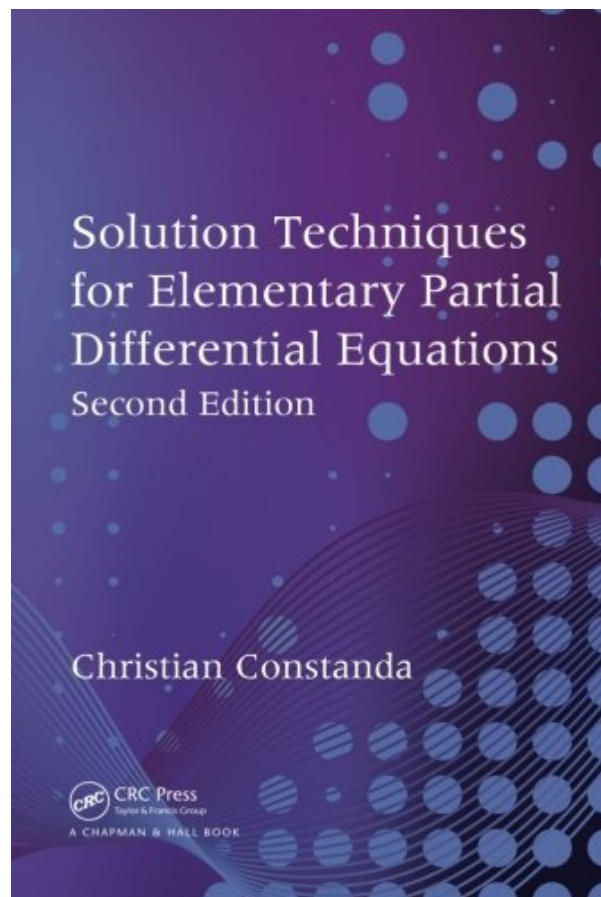 SOLUTION TECHNIQUES FOR ELEMENTARY PARTIAL DIFFERENTIAL EQUATIONS, SECOND EDITION (CHAPMAN HALL/CRC MATHEMATICS) BY CHRISTIAN CONSTANDA

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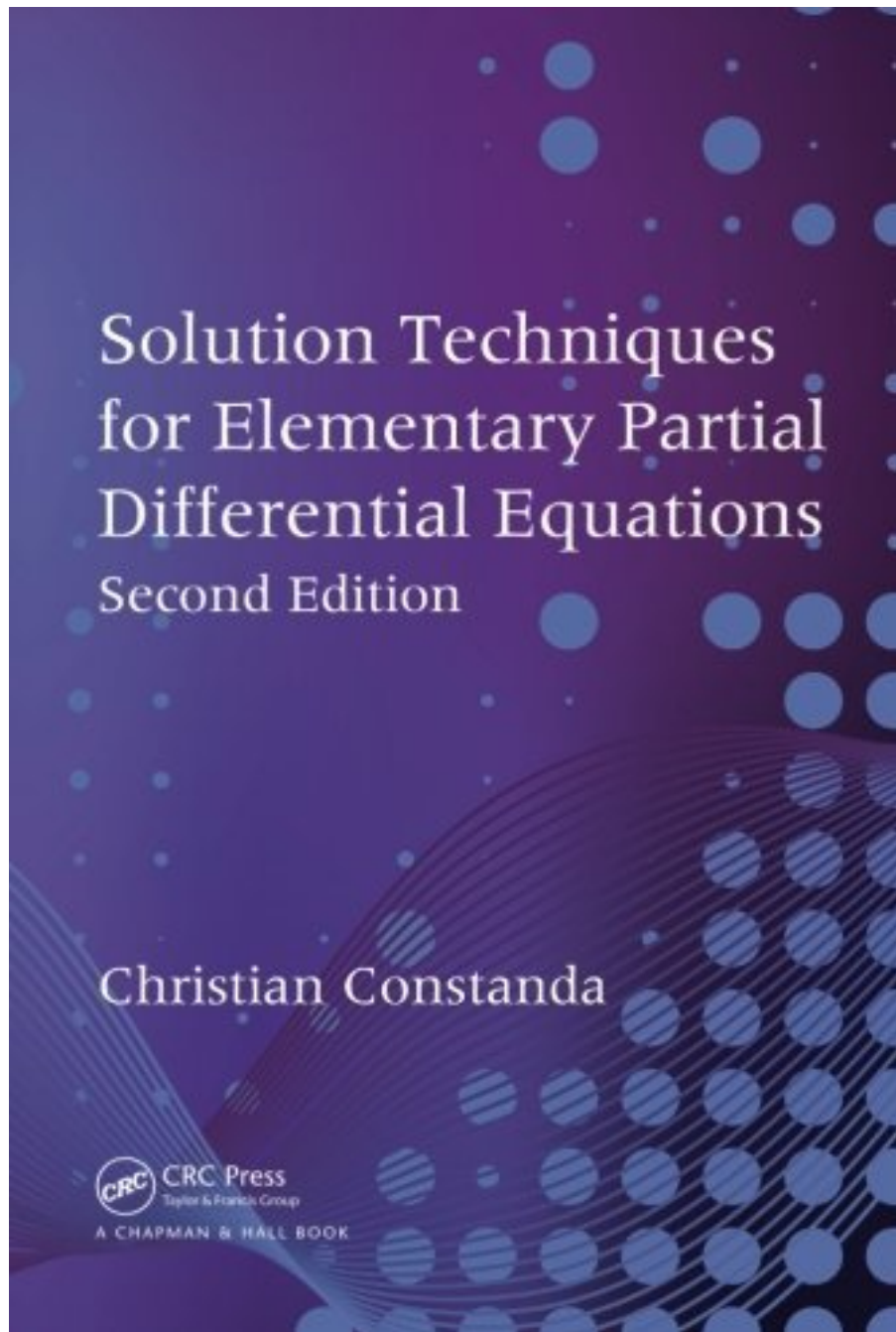
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New to the Second Edition

- New sections on Cauchy–Euler equations, Bessel functions, Legendre polynomials, and spherical harmonics
- A new chapter on complex variable methods and systems of PDEs
- Additional mathematical models based on PDEs
- Examples that show how the methods of separation of variables and eigenfunction expansion work for equations other than heat, wave, and Laplace
- Supplementary applications of Fourier transformations
- The application of the method of characteristics to more general hyperbolic equations
- Expanded tables of Fourier and Laplace transforms in the appendix
- Many more examples and nearly four times as many exercises

This edition continues to provide a streamlined, direct approach to developing students' competence in solving PDEs. It offers concise, easily understood explanations and worked examples that enable students to see the techniques in action. Available for qualifying instructors, the accompanying solutions manual includes full solutions to the exercises. Instructors can obtain a set of template questions for test/exam papers as well as computer-linked projector files directly from the author.

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