Elliptic Boundary Value Problems: Basic Theory and Approximation (Pure and Applied Mathematics: A Wiley Series of Texts, Monographs and Tracts)

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Elliptic Boundary Value Problems: Basic Theory and Approximation (Pure and Applied Mathematics: A Wiley Series of Texts, Monographs and Tracts) Ivar Stakgold, Michael J. Holst Adapted from the authors' Green's Functions and Boundary Value Problems, Third Edition (Copyright 2011), this book continues the tradition of the two prior editions by providing mathematical techniques for the use of differential and integral equations to tackle important problems in applied mathematics, the physical sciences, and engineering. Stakgold and Holst present mathematical concepts and quantitative tools that are essential for effective use of modern computational methods, which play a key role in the practical solution of boundary value problems. With a careful blend of theory and applications, the authors successfully bridge the gap between real analysis, functional analysis, differential equations, and numerical analysis to provide a comprehensive foundation for understanding and analyzing core mathematical and computational modeling problems. Thoroughly cited and attributed to reflect recent developments, the book includes an extensive chapter on the modern tools of computational mathematics for boundary value problems. Plentiful exercises found throughout allow readers to develop their own problem-solving skills, and the extensive bibliographies in each chapter provide a rich resource for new and emerging research and applications.

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