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## Efficient Preconditioned Solution Methods for Elliptic Partial Differential Equations

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## About the ebook

This e-book presents several research areas of elliptical problems solved by differential equations. The mathematical models explained in this e-book have been contributed by experts in the field and can be applied to a wide range of real life examples.

## Contents

- List of Contributors
- Robust Multilevel Preconditioning Methods
- Efficient Preconditioners for Saddle Point Systems
- Block Preconditioners for Saddle Point Problems Resulting from Discretizations of Partial Differential Equations
- Construction of Preconditioners by Mapping Properties for Systems of Partial Differential Equations
- Automatic Construction of Sparse Preconditioners for High-Order Finite Element Methods
- A Geometric Toolbox for Tetrahedral Finite Element Partitions

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