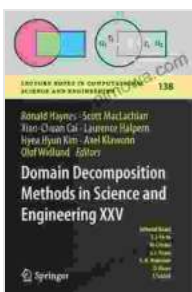


# Domain Decomposition Methods In Science And Engineering Xxv: Your Gateway to Unlocking Complex Scientific and Engineering Challenges

In the realm of scientific and engineering research, the ability to solve complex problems efficiently and accurately is paramount. 'Domain Decomposition Methods In Science And Engineering Xxv' emerges as an invaluable resource for researchers and practitioners seeking cutting-edge techniques to tackle these challenges.

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## Domain Decomposition Methods in Science and Engineering XXV (Lecture Notes in Computational Science and Engineering Book 138) by Sathyan Subbiah

★★★★★ 5 out of 5

Language : English

File size : 21102 KB

Screen Reader : Supported

Print length : 534 pages



### Unveiling the Power of Domain Decomposition Methods

Domain decomposition methods are a class of numerical techniques that subdivide a complex problem into smaller, manageable subdomains. By solving these subdomains independently and coordinating their interactions, researchers can harness the power of parallel computing and high-performance computing to expedite the solution process.

In 'Domain Decomposition Methods In Science And Engineering Xxv', renowned experts in the field provide a comprehensive overview of the theory, algorithms, and applications of these methods. Readers will gain a deep understanding of:

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- Preconditioners and iterative solvers for efficient solution of subdomain problems
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The versatility of domain decomposition methods extends to a wide range of scientific and engineering applications, including:

- Computational fluid dynamics
- Solid mechanics
- Electromagnetics
- Geosciences

- Materials science

In 'Domain Decomposition Methods In Science And Engineering Xxv', researchers will find detailed case studies and practical examples that showcase the effectiveness of these methods in solving real-world problems in these domains.

## **Key Features of 'Domain Decomposition Methods In Science And Engineering Xxv'**

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## **Target Audience**

'Domain Decomposition Methods In Science And Engineering Xxv' is an essential resource for researchers, practitioners, and students in scientific

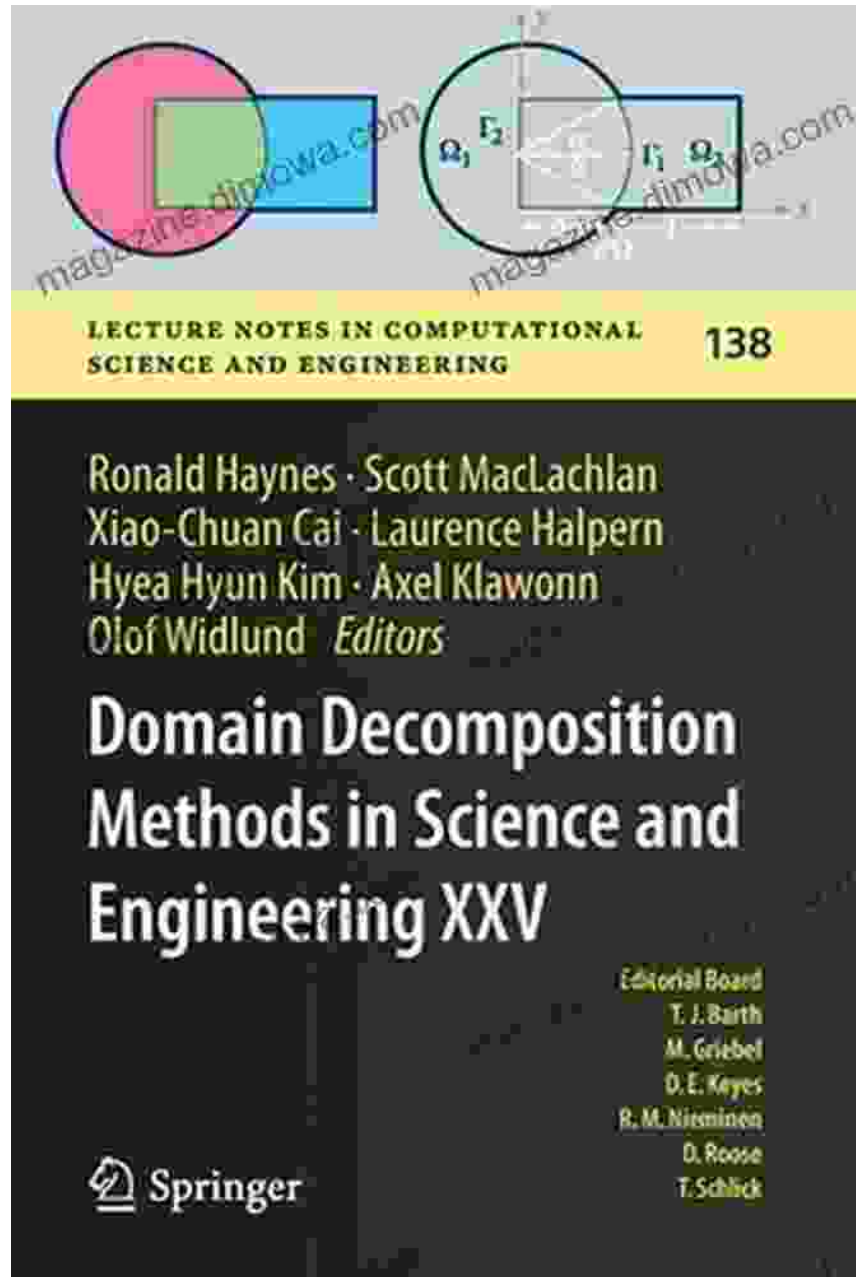
computing, engineering, and applied mathematics. It is particularly valuable for those working in fields that require the solution of large-scale problems, such as:

- Computational scientists
- Engineers
- Applied mathematicians
- Graduate students in these disciplines

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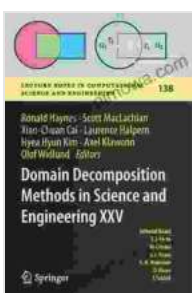
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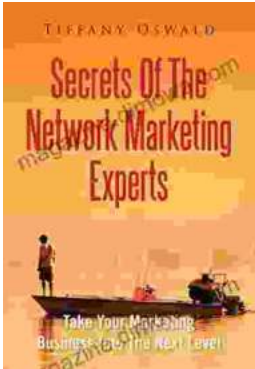
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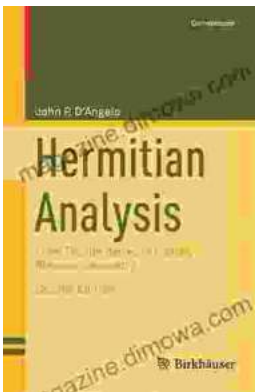
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