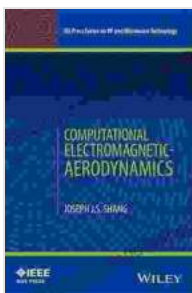


Computational Electromagnetic Aerodynamics: Revolutionizing Aircraft Design

In the relentless pursuit of aviation advancements, scientists and engineers are harnessing the power of computational electromagnetic aerodynamics. This groundbreaking book, published by IEEE Press on RF and Microwave, serves as a comprehensive guide to this cutting-edge field, equipping readers with the knowledge and tools to revolutionize aircraft design.



Computational Electromagnetic-Aerodynamics (IEEE Press Series on RF and Microwave Technology)

★★★★★ 5 out of 5

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|----------------------|-------------|
| Language | : English |
| File size | : 21293 KB |
| Text-to-Speech | : Enabled |
| Screen Reader | : Supported |
| Enhanced typesetting | : Enabled |
| Print length | : 412 pages |
| Lending | : Enabled |



Bridging the Gap Between Electromagnetics and Aerodynamics

Computational electromagnetic aerodynamics seamlessly integrates the disciplines of electromagnetics and aerodynamics. It empowers engineers to simulate and optimize electromagnetic phenomena, such as radar scattering, antenna performance, and electromagnetic interference, in the context of aerodynamic flow fields. By bridging this gap, aircraft designers

gain unprecedented insights into the complex interactions between electromagnetic radiation and aircraft structures.

Key Features of the Book

- **Comprehensive Coverage:** Delves into fundamental concepts, numerical modeling techniques, and advanced applications of computational electromagnetic aerodynamics.
- **Practical Examples:** Provides numerous case studies and real-world examples to illustrate the practical implementation of the presented methods.
- **State-of-the-Art Research:** Features cutting-edge research findings and recent advancements in the field.
- **Expert Authors:** Authored by leading experts in computational electromagnetic aerodynamics, ensuring authoritative and up-to-date content.

Benefits for Aircraft Designers

This book empowers aircraft designers with a comprehensive understanding of computational electromagnetic aerodynamics, enabling them to:

- Simulate aircraft performance under various electromagnetic conditions
- Optimize antenna placement and design for improved signal reception and transmission
- Reduce radar detectability and enhance stealth capabilities

- Mitigate electromagnetic interference and ensure safe operation

Applications in Aerospace Engineering

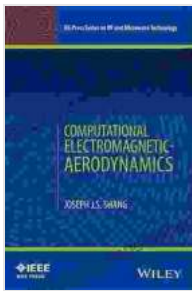
Computational electromagnetic aerodynamics finds applications in diverse areas of aerospace engineering, including:

- **Aircraft Design:** Optimizing aerodynamic and electromagnetic performance of aircraft structures
- **Antenna Design:** Engineering antennas for optimal performance in aerodynamic environments
- **Stealth Technology:** Enhancing aircraft stealth capabilities by minimizing radar scattering
- **Electromagnetic Compatibility:** Ensuring compatibility between electromagnetic systems within aircraft

Computational Electromagnetic Aerodynamics: IEEE Press on RF and Microwave is an indispensable resource for aerospace engineers, researchers, and anyone seeking to harness the power of this transformative technology. By mastering the principles and techniques presented in this book, readers will be empowered to push the boundaries of aircraft design and propel aviation into a new era of innovation.

Unlock the future of aviation with this groundbreaking book. Free Download your copy today and embark on a journey towards realizing the full potential of computational electromagnetic aerodynamics.

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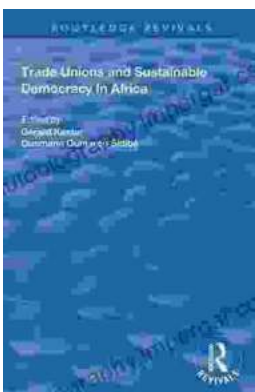
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