

Road Vehicle *Aerodynamic* Design

SECOND EDITION

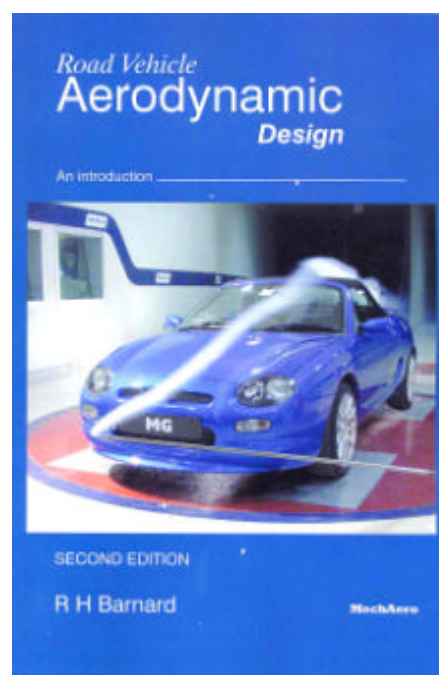
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Provides a comprehensive introduction to the subject of road vehicle aerodynamics for students, engineers and designers working in the automotive field. Assuming no prior specialist knowledge, the book concentrates on the physical principles involved. Although the approach is largely non-mathematical, quantitative data are given, together with some basic formulae and examples of their use. Practical design implications are stated, and illustrated by examples of current and historical vehicles.

Contents

1. Understanding airflows
2. Drag and lift forces
3. The influence of aerodynamics on economy and performance
4. The aerodynamic design of family cars
5. Commercial vehicles
6. Racing cars and other high-performance vehicles
7. Internal airflows: ventilation, heating, air conditioning and noise
8. Internal comfort, heating air-conditioning and noise
9. Open cabriolets
10. Vehicles in cross winds
11. Wind tunnel and road testing
12. Computational Fluid dynamics (CFD) methods



Published by

M e c h A e r o Publishing

46 Lancaster Road, St Albans, Herts, AL1 4ET. UK

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Published 2001 286pp pbk.

ISBN 0-9540734-0-1

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