



# Theory of Engine Manifold Design: Wave Action Methods for IC Engines

*Desmond E. Winterbone, Richard J. Pearson*

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This book, together with its companion volume *Design Techniques for Engine Manifolds – Wave Action Methods for IC Engines*, reports the significant developments that have occurred over the last twenty years and shows how mature the calculation of one-dimensional flow has become. In particular, they show how the application of finite volume techniques results in more accurate simulations than the ‘traditional’ Method of Characteristics and gives the further benefit of more rapid and more robust calculations.

## CONTENTS INCLUDE:

- Introduction
- Governing equations
- Numerical methods
- Future developments in modelling unsteady flows in engine manifolds
- Simple boundaries at pipe ends
- Intra-pipe boundary conditions
- Turbocharging components
- The application of wave action methods to design and analysis of flow in engines.

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