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1.5 Computational Fluid Dynamics: What Is It? 23 1.6 The Purpose of This Book 32 2 The Governing Equations of Fluid Dynamics: Their Derivation, a Discussion of Their Physical Meaning, and a Presentation of Forms Particularly Suitable to CFD 37 2.1 Introduction 38 2.2 Models of the Flow 40

This chapter is intended as an introductory guide for Computational Fluid Dynamics CFD. Due to its introductory nature, only the basic principals of CFD are introduced here. For more detailed description, readers are referred to other textbooks, which are devoted to this topic.1,2,3,4,5 CFD provides numerical approximation to the equations that

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solutions of the partial differential equations of fluid mechanics constitute the field of computational fluid dynamics (CFD). Although the field is still developing, a number of books have been written.^{1,2,3,4,5,6} In particular, the book by Tannehill et al,¹ which appeared in 1997 as a

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