

Contents

<i>Preface</i>	v
1. Introduction to Developed Turbulence <i>Gregory Falkovich</i>	1
2. Renormalization and Statistical Methods <i>David McComb</i>	21
3. Turbulence and Coherent Structures in the Ocean <i>Henk A. Dijkstra</i>	81
4. Analytical Descriptions of Plasma Turbulence <i>John A. Krommes</i>	115
5. Experimental Studies of Plasma Turbulence <i>Michael Shats and Hua Xia</i>	233
6. The Numerical Computation of Turbulence <i>Javier Jiménez</i>	281
7. Particle Image Velocimetry - Application to Turbulence Studies <i>Julio Soria</i>	309

8. Vortex Flows in Optical Fields 349
Anton S. Desyatnikov