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Nota di contenuto	Front Cover; Contributors; Preface; List of Figures; List of Tables; Contents; Introduction; Chapter 1 - Experimental Data Evaluation: Basic Concepts; Chapter 2 - Computation of Means and Variances from Measurements; Chapter 3 - Optimization Methods For Large-Scale Data Assimilation; Chapter 4 - Basic Principles of 4-D VAR; Chapter 5 - 4-D VAR in Numerical Weather Prediction Models; Chapter 6 - Appendix A; Chapter 7 - Appendix B; Chapter 8 - Appendix C; Bibliography; Back Cover
Sommario/riassunto	Data evaluation and data combination require the use of a wide range of probability theory concepts and tools, from deductive statistics mainly concerning frequencies and sample tallies to inductive inference for assimilating non-frequency data and a priori knowledge. Computational Methods for Data Evaluation and Assimilation presents interdisciplinary methods for integrating experimental and computational information. This self-contained book shows how the methods can be applied in many scientific and engineering areas. After presenting the fundamentals underlying the evaluation of experiment