

1. Record Nr.	UNINA9910787583203321
Autore	Cacuci D. G.
Titolo	Computational methods for data evaluation and assimilation // Dan Gabriel Cauci, Ionel Michael Navon, Mihaela Ionescu-Bujor
Pubbl/distr/stampa	Boca Raton : , : CRC Press, , [2014]
ISBN	0-429-13654-4 1-58488-735-4
Descrizione fisica	1 online resource (372 p.)
Classificazione	MAT003000
Disciplina	518.0285
Soggetti	Mathematical analysis - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"A Chapman & Hall book."
Nota di bibliografia	Includes bibliographical references.
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