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Autore	Krishnamurti T. N (Tiruvalam Natarajan), <1932->
Titolo	An introduction to global spectral modeling [[electronic resource] /] / T. N. Krishnamurti, H.S. Bedi, Vivek Hardiker
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Descrizione fisica	1 online resource (266 p.)
Collana	Oxford scholarship online
Altri autori (Persone)	BediH. S HardikerV. M <1963-> (Vivek Manohar)
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Nota di contenuto	Contents; 1 Introduction; 2 An Introduction to Finite Differencing; 3 Time-Differencing Schemes; 4 What Is a Spectral Model?; 5 Lower-Order Spectral Model; 6 Mathematical Aspects of Spectral Models; 7 Multilevel Global Spectral Model; 8 Physical Processes; 9 Initialization Procedures; 10 Spectral Energetics; References; Index
Sommario/riassunto	This is an introductory text on numerical weather prediction (numerically modelling the general circulation of the atmosphere), utilizing the spectral transform method. The book covers finite difference methods and time-differencing schemes; the theoretical development of the spectral transform method (using spherical surfaces rather than grids for determining variation in the elements of weather); physical processes; current issues in dynamical and physical initiation; and data analysis. Several practical examples of the spectral transform method are included.