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| Nota di contenuto       | Four-Dimensional Model Assimilation of Data: A Strategy for the Earth System Sciences -- Copyright -- Contents -- Executive Summary -- CONCLUSIONS -- RECOMMENDATIONS -- 1 Introduction -- CONCEPT OF GEOPHYSICAL MODEL DATA ASSIMILATION -- ASSESSMENT OF DATA ASSIMILATION IN ATMOSPHERIC SCIENCES -- DATA ASSIMILATION VIEWED AS PART OF A SYSTEMATIC LEARNING PROCESS -- CURRENT STATUS OF DATA ASSIMILATION -- APPLICABILITY OF DATA ASSIMILATION TO THE EARTH SYSTEM SCIENCES -- 2 Data Assimilation Development -- INTRODUCTION -- PRINCIPLES AND METHODS -- CONTINUOUS DATA INSERTION -- RESEARCH AND DEVELOPMENT IN DATA ASSIMILATION: THE KALMAN FILTER AND ADJOINT METHODS -- 3 Current and Future Applications of Model Assimilation Systems -- GLOBAL ATMOSPHERIC CIRCULATION -- MESOSCALE ATMOSPHERIC CIRCULATIONS -- PHYSICAL |

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-- Land Surface Subsystem -- Ocean Surface Subsystem -- GLOBAL  
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