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| Nota di contenuto       | Contents; Preface to the ninth edition; Acknowledgments; CHAPTER ONE Introduction and history of meteorology and climatology; CHAPTER TWO Atmospheric composition, mass and structure; CHAPTER THREE Solar radiation and the global energy budget; CHAPTER FOUR Atmospheric moisture budget; CHAPTER FIVE Atmospheric instability, cloud formation and precipitation processes; CHAPTER SIX Atmospheric motion: principles; CHAPTER SEVEN Planetary-scale motions in the atmosphere and ocean; CHAPTER EIGHT Numerical models of the general circulation, climate and weather prediction<br>CHAPTER NINE Mid-latitude synoptic and mesoscale systemsCHAPTER TEN Weather and climate in middle and high latitudes; CHAPTER ELEVEN Tropical weather and climate; CHAPTER TWELVE Boundary layer climates; CHAPTER THIRTEEN Climate change; APPENDIX 1 Climate classification; APPENDIX 2 Systeme International (SI) units; APPENDIX 3 Synoptic weather maps; APPENDIX 4 Data sources; Notes; General Bibliography; Index |

## Sommario/riassunto

This book presents a comprehensive introduction to weather processes and climatic conditions around the world, their observed variability and changes, and projected future trends. Extensively revised and updated, this ninth edition retains its tried and tested structure while incorporating recent advances in the field. From clear explanations of the basic physical and chemical principles of the atmosphere, to descriptions of regional climates and their changes, the book presents a comprehensive coverage of global meteorology and climatology. In this new edition the latest scientific ideas a

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