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"New Thinking, New Scholarship and New Research in Catholic Education gives a forum to many established and leading scholars to review and critically appraise the research contribution of Gerald Grace to Catholic education. The book demonstrates the way in which the field of Catholic Education Studies has developed under the influence of Grace, to become internationally recognised. This book demonstrates the ways in which Gerald Grace has shaped Catholic education since 1997. This begins with the primacy of empirical study and carefully conducted fieldwork when researching Catholic education. Many contributors focus on the way Grace champions the alignment between Catholic education and what we have come to know as the option for the poor. The collection also reflects Grace's intention to ensure the voices of women are properly represented in the field of Catholic education. The book is based on an inclusive and open principle that seeks to establish dialogue with educators of different faiths and different religious backgrounds, as well as secular and humanist critics. It will be of great interest to academics, scholars and students of religious education, the history of education and all those interested in the developing field of Catholic Education Studies."--Back cover.

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Nota di contenuto	Title Page; Table of Contents; CONTRIBUTORS; PREFACE; ACKNOWLEDGMENTS; Part I: Aurora Types and Dynamics; 1. Investigations of the Many Distinct Types of Auroras; 1.1. OVERVIEW; 1.2. DIFFUSE AURORA; 1.3. DISCRETE AURORA; 1.4. DYNAMIC AURORA AND SMALL-SCALE AURORAL STRUCTURES; REFERENCES; 2 Quasiperiodic Aurora: Outstanding Problems and Recent Results; 2.1. INTRODUCTION; 2.2. FLICKERING AURORA; 2.3. PULSATING AURORA; 2.4. CONCLUDING REMARKS; ACKNOWLEDGMENTS; REFERENCES; 3 Inverted-V Auroral Arcs and Alfvén Waves; 3.1. INTRODUCTION; 3.2. OBSERVATIONS AND INTERPRETATION; 3.3. CONCLUSION ACKNOWLEDGMENTS; REFERENCES; 4. Auroral Arcs and Ion Outflow; 4.1. INTRODUCTION; 4.2. ACCELERATION MECHANISMS; 4.3. OBSERVATIONS: SPATIAL DISTRIBUTION AND RELATIONSHIP WITH AURORAL ARC MORPHOLOGY; 4.4. IMPACT ON IONOSPHERIC AND MAGNETOSPHERIC DYNAMICS; 4.5. CONCLUSION; ACKNOWLEDGMENT; REFERENCES; 5 Isolated Proton Auroras and Pc1/EMIC Waves at Subauroral Latitudes; 5.1. INTRODUCTION; 5.2. OBSERVATION SITE AND

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12.5. SOME DISTINGUISHING FEATURES BETWEEN THE TWO PREVAILING SUBSTORM MODELS

Sommario/riassunto

The aurora is the most visible manifestation of the connection of the Earth to the space environment and has inspired awe, curiosity, and scientific inquiry for centuries. Recent advances in observing techniques and modeling and theoretical work have revealed new auroral phenomena, provided a better understanding of auroral dynamics, and have led to an enhanced capability for auroral forecasts. This monograph features discussions of: *New auroral phenomena due to the ring current ion and polar rain electron precipitation *Various auroral forms and hemispheric asymmetry *Auroral model development and MHD simulations *Application of the auroral observations for radio absorption and scintillation *Aurora nowcast and forecast for space weather operations. Auroral Dynamics and Space Weather is a valuable contribution for scientists, researchers, space weather operators, and students of Earth's space environment.
