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#### Sommario/riassunto

This book is a journey through the wonders of physics, the special thousandth volume of the renowned Lecture Notes in Physics book series. From quantum physics to solar physics, this volume showcases the beauty of physics in various fields. Written by series editors and colleagues, these essays are accessible to non-specialists and graduate-level students alike, making for an intriguing read for anyone interested in learning about physics beyond their own field of study. Explore the historical development of the series with two insightful forewords. List of essays: A New Era of Quantum Materials Mastery and Quantum Simulators In and Out of Equilibrium Evaluation and Utility of Wilsonian Naturalness The Geometric Phase: Consequences in Classical and Quantum Physics The Coming Decades of Quantum Simulation Insights into Complex Functions Exploring the Hottest Atmosphere with the Parker Solar Probe A Primer on the Riemann Hypothesis.