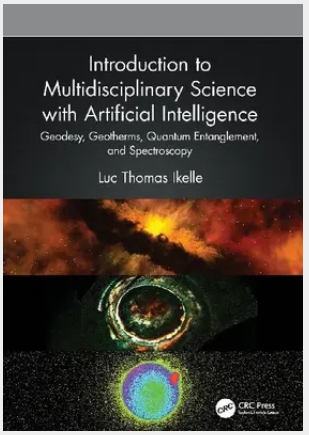
Ikelle

Introduction to Multidisciplinary Science with Artificial Intelligence

Geodesy, Geotherms, Quantum Entanglement, and Spectroscopy

The book is about multidisciplinary science education. The challenges of our time, such as improving the length and quality of lives on Earth and short- and long-distance communication and transportation. In this book, we provide readers with the multidisciplinary education necessary to meet the scientific and technological challenges of our time while optimizing the college experience for students. The fundamental notions addressed in this book include gravitational forces and energy; dark matter and dark energy; heat transfer in solid Earth, stars' interiors, and human bodies; electromagnetic radiation and spectroscopy; quantum entanglement and computing; accretion disks; matter in plasma state; and exoplanets. We illustrate the importance of these notions with applications across disciplines, including monitoring the deformation of the solid Earth's surface using satellite measurements, unusual gravity anomalies in Antarctica, a view and characterization of the far side of our Moon, Earth's climate, Titan's anti-greenhouse effect, long-distance communication between Earth and the planets and exoplanets, etc. Finally, the book contains analytical and computational problems, including MATLAB software developed especially for the classes associated with this book. Key Features: • Contains multiple analytic and computational (MATLAB) exercises • Explores applications related to space programs' discoveries • Provides an accessible introduction and response to growing Multidisciplinary Science programs

This book aims to provide readers with the tools necessary to address scientific and technological challenges in astronomy and space exploration.



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