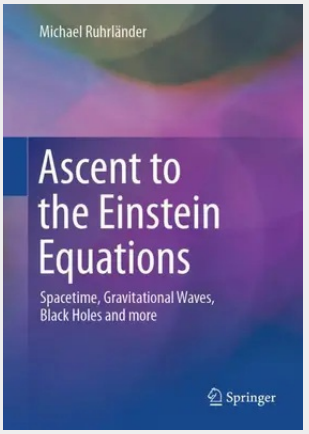
Ruhrländer

Ascent to the Einstein Equations

Spacetime, Gravitational Waves, Black Holes and more



What are Einstein’s field equations? Can they be understood without a physics degree?

This book provides the answer. With care and clarity, the author offers scientifically curious readers an accessible path into Einstein’s theories of relativity. Only high school-level knowledge is assumed, making the material approachable for anyone with a strong interest in science. Readers explore both the physical phenomena and the mathematical techniques needed to grasp Einstein’s theory of gravity on a quantitative level. Step by step, the book guides readers toward answers to fundamental questions about General Relativity:

- How does Einstein’s theory of gravity differ from Newton’s?
- How can gravitational attraction be described geometrically?
- How can a black hole “swallow” light?

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