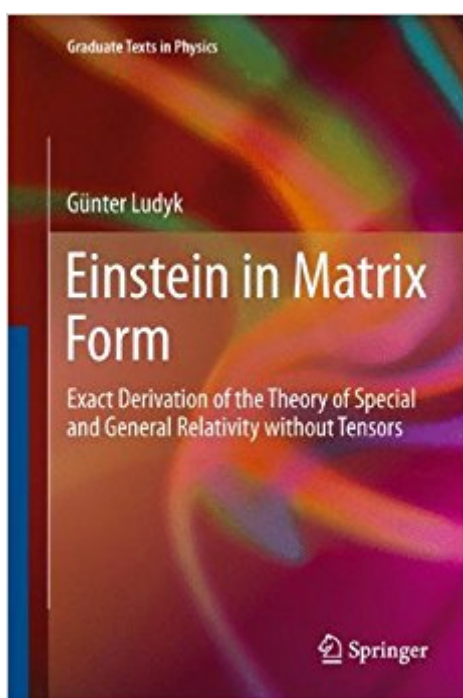


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Einstein In Matrix Form: Exact Derivation Of The Theory Of Special And General Relativity Without Tensors (Graduate Texts In Physics)



Synopsis

This book is an introduction to the theories of Special and General Relativity. The target audience are physicists, engineers and applied scientists who are looking for an understandable introduction to the topic - without too much new mathematics. The fundamental equations of Einstein's theory of Special and General Relativity are derived using matrix calculus, without the help of tensors. This feature makes the book special and a valuable tool for scientists and engineers with no experience in the field of tensor calculus. In part I the foundations of Special Relativity are developed, part II describes the structure and principle of General Relativity. Part III explains the Schwarzschild solution of spherical body gravity and examines the "Black Hole" phenomenon. Any necessary mathematical tools are user friendly provided, either directly in the text or in the appendices.

Book Information

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Customer Reviews

I love the content of this book, it's great to see GTR in matrix form. I will read it from cover to cover, once I get a copy with a cover that's actually glued on correctly. sent me a print on demand copy with the cover glued on cock-eyed. Big gap at the top of the spine, no gap at the bottom. The front and back didn't align when the book is closed, and it made a crackling snappy noise every time I opened and closed the book. I returned it, and will buy it from Barnes and Noble, who say they can get it to me in 24 hours. Let's see if they print it on demand. *Sigh* That's how all of these high end books are coming now, it's a crap shoot every time I order one.*UPDATE* I got a copy through Barnes and Noble - it is also print on demand. BUT, this copy is better than the one I got from .

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Tensors are important in Relativity because they insure that equations have the same form on every frame of reference. That is a corner stone in Relativity. To use the theory you will choose one referential and the second order tensors became matrices.

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