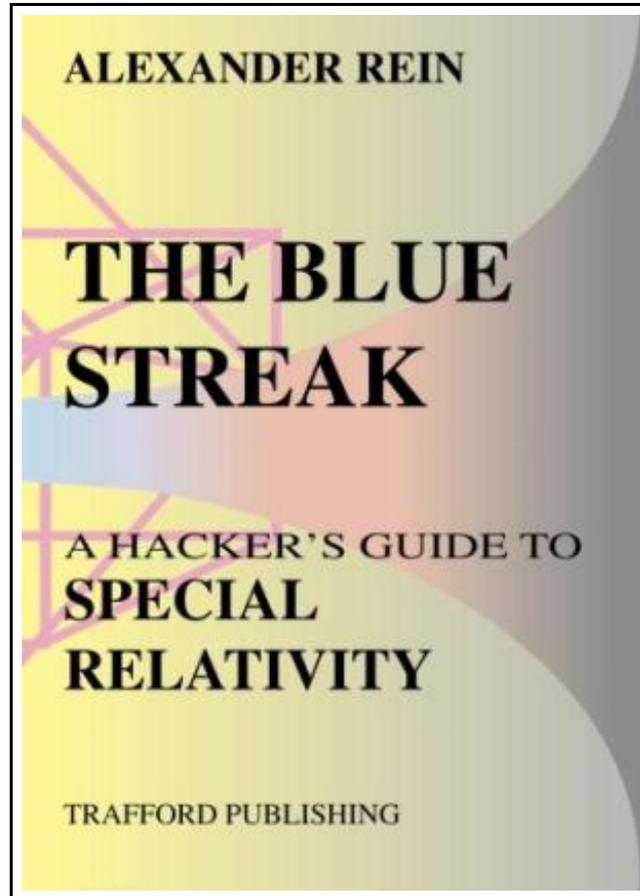


The Blue Streak: A Hacker's Guide to Special Relativity



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THE BLUE STREAK: A HACKER S GUIDE TO SPECIAL RELATIVITY



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Trafford Publishing, Canada, 2006. Paperback. Book Condition: New. 251 x 175 mm. Language: English . Brand New Book ***** Print on Demand *****.The hacker's approach to Special Relativity grew out of an attempt to demystify the puzzling features of the theory to intelligent but intuition-blocked lay persons by a strategy aimed at this particular handicap: The insufficiently understood basic concepts, the most obstinate stumbling blocks, are explained at length first. The four-dimensional cornerstone of the theory, the all-important Invariant, is presented as a geometric structure analogous to the Diagonal of a box-like Frame of Reference to which Time is subsequently added as the Fourth Dimension. The exposition of the theory of Special Relativity is primarily intuition-oriented while remaining also geometrically conceptualized and mathematically developed. It is built up from scratch around First Principles starting out with our primitive notions of Space, Time and Motion which are then continually updated and refined. The conceptual tools and terminology for investigating Linear Motion at Uniform Velocity are provided in a step-by-step fashion and always visualized by suitable illustrations. The Spacetime terrain (curved but not spherical) and its domains (Past, Present and Future) are defined, mapped and explained. The standard topics of Special Relativity are individually elaborated in the already introduced step-by-step fashion and its mathematical results, the equations, are not just displayed in print as usually done in undergraduate textbooks but are actually derived from familiar situations using only elementary algebra, the simplest possible math for the task. These derivations are additionally written out fully in longhand for the benefit of those still inexperienced or whose math has all gone to rust. The Theory of Relativity is covered in sufficient detail to make this book an optional supplement in a college-level physics course. It can also serve as a source of information and...



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