

ALEXANDER REIN

# THE BLUE STREAK

A HACKER'S GUIDE TO  
SPECIAL  
RELATIVITY

TRAFFORD PUBLISHING

# Blue Streak A Hackers Guide To Special Relativity

**Sir James Augustus Henry Murray**



## **Blue Streak A Hackers Guide To Special Relativity:**

*The Blue Streak* Alexander Rein, 2003 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 insight in high school and adult science clubs but above all it was meant to be a self study manual a virtual class room at home a do it yourself tutoring aid Besides standard fare two speculative topics are included 1 a Faster than Light chapter dealing with its chief reputed consequence the reversal of Time Arrow once the travel speed has crashed the Light Barrier and 2 a tentative description of a very very fast moving object caught by our wide open eyes or by a super fast shutter speed camera The book and its intended readership are described in the Preface Basic concepts and a brief historical background of the theory are given in the Introduction In Chapters I XV you'll find the main topics and in the Postscript there are additional comments pertinent to but reaching above and beyond the contents of this book

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In some sort of taken by screens and the ceaseless chatter of immediate connection, the melodic splendor and mental symphony produced by the written word frequently diminish in to the back ground, eclipsed by the constant noise and interruptions that permeate our lives. However, located within the pages of **Blue Streak A Hackers Guide To Special Relativity** a stunning literary prize brimming with raw feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, this captivating masterpiece conducts readers on an emotional journey, skillfully unraveling the concealed tunes and profound impact resonating within each cautiously constructed phrase. Within the depths of the emotional analysis, we can explore the book is main harmonies, analyze its enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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