

Newtons Football The Science Behind Americas Game

Patrick Vollmar

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Newton's Football Allen St. John, Ainissa G. Ramirez, PH.D., 2013-11-19 In the bestselling tradition of Freakonomics and Scorecasting comes a clever and accessible look at the big ideas underlying the science of football Did you hear the one about the MacArthur genius physicist and the NFL coach It's not a joke It's actually an innovative way to understand chaos theory and the remarkable complexity of modern professional football In Newton's Football journalist and New York Times bestselling author Allen St John and TED Speaker and former Yale professor Ainissa Ramirez explore the unexpected science behind America's Game Whether it's Jerry Rice finding the common ground between quantum physics and the West Coast offense or an Ivy League biologist explaining at a granular level exactly how a Big Mac morphs into an outside linebacker Newton's Football illuminates football and science through funny insightful stories told by some of the world's sharpest minds With a clear eyed empirical approach and an exuberant affection for the game St John and Ramirez address topics that have long beguiled scientists and football fans alike including the unlikely evolution of the football or as they put it The Divinely Random Bounce of the Prolate Spheroid what Vince Lombardi has in common with Isaac Newton how the hardwired behavior of monkeys can explain a head coach s reluctance to go for it on fourth down why a gruesome elevator accident jump started the evolution of placekicking how Teddy Roosevelt saved football using the same behavioral science concept that Dreamworks would use to save Shrek why woodpeckers don't get concussions how better helmets actually made the game more dangerous Every Sunday the NFL shares a secret with only its savviest fans The game isn t just a clash of bodies it s a clash of ideas The greatest minds in football have always possessed an instinctual grasp of science understanding the big ideas and gritty realities that inform the game's rich past as well as its increasingly uncertain future Blending smart reporting counterintuitive creativity and compelling narrative Newton's Football takes gridiron analysis to the next level giving fans a book that entertains enlightens and explains the game anew Praise for Newton's Football It was with great interest that I read Newton's Football I m a fan of applying of science to sport and Newton's Football truly delivers The stories are as engaging as they are informative This is a great read for all football fans Mark Cuban A delightfully improbable book putting science nerds and sports fans on the same page Booklist This breezily written but informative book should pique the interest of any serious football fan in the twenty first century The American Spectator The authors have done a worthy job of combining popular science and sports into a work that features enough expertise on each topic to satisfy nerds and jocks alike The writers succeed in their task thanks to in depth scientific knowledge a wonderful grasp of football s past and present interviews with a wide array of experts and witty prose Newton's Football is fun and thought provoking proving that football is a mind game as much as it is a ball game Publishers Weekly Key to Blue Workbook Susan Wise Bauer, 2020-08-18 The Key to the Blue Workbook gives clear thoroughly explained answers to all exercises in the Blue Workbook one of four workbooks in the Grammar for the Well Trained Mind series providing detailed well designed exercises

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