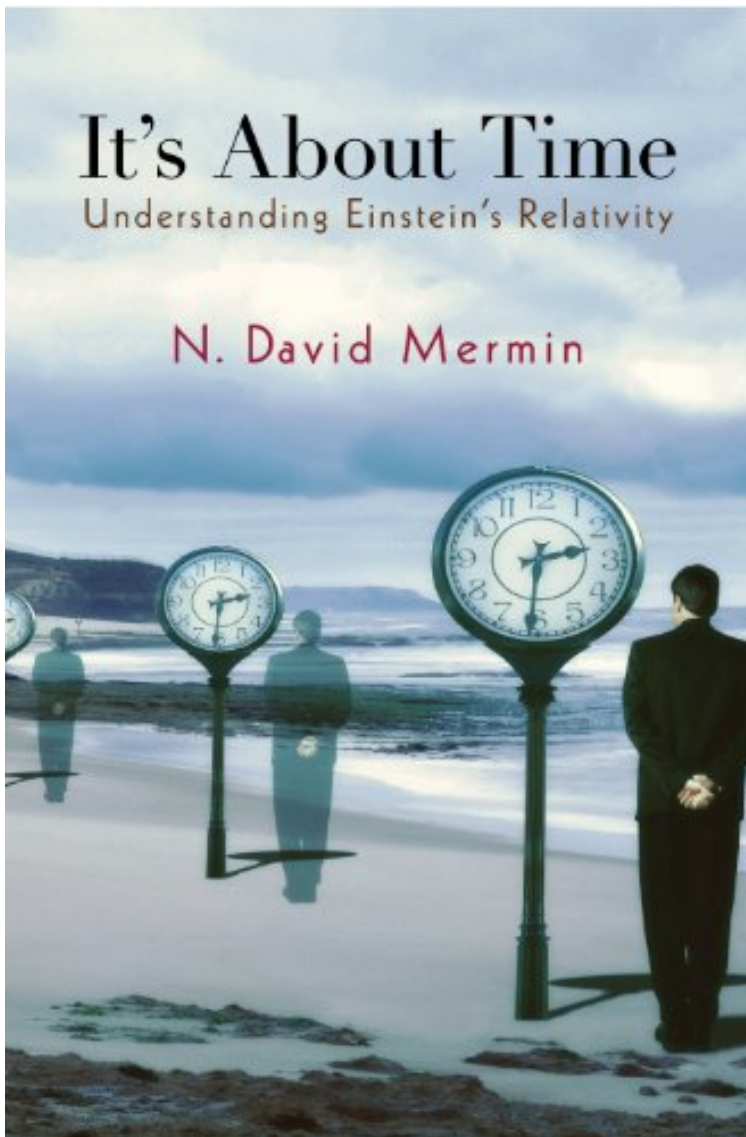


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Description :

Prsentation de l'diteurIn It's About Time, N. David Mermin asserts that relativity ought to be an important part of everyone's education--after all, it is largely about time, a subject with which all are familiar. The book reveals that some of our most intuitive notions about time are shockingly wrong, and that the real nature of time discovered by Einstein can be rigorously explained without advanced mathematics. This readable exposition of the nature of time as addressed in Einstein's theory of relativity is accessible to anyone who remembers a little high school algebra and elementary plane geometry. The book evolved as Mermin taught the subject to diverse groups of undergraduates at Cornell University, none of them science majors, over three and a half decades. Mermin's approach is imaginative, yet accurate and complete. Clear, lively, and informal, the book will appeal to intellectually curious readers of all kinds, including even

professional physicists, who will be intrigued by its highly original approach. Booklist According to an old publishing saw, every equation included in a book decreases its sales. This one attempts to defy convention. The product of Mermin's career teaching the subject to nonscience majors, its audience will be readers who are aware that near the speed of light, dimensions shrink, time slows, and mass increases infinitely but who may not know why. Assuring them that only high school-level algebra and geometry are required, Mermin begins gently with verbal descriptions of a frame of reference. The equations debut with his discussion of moving frames of reference, which at the speeds of our everyday world are easy to digest. The difficult, counterintuitive part is grasping the implications for moving frames of the absolute constancy of the speed of light. Nobody did until Einstein's 1905 paper, "On the Electrodynamics of Moving Bodies." Mermin's dozens of diagrams illustrate the chain of reasoning that arrives at Einstein's startling discovery that mass is equivalent to energy. There's a profound difference between knowing about something, and knowing it, and Mermin succeeds at instilling the latter. Gilbert Taylor Copyright American Library Association. All rights reserved Presentation de l'auteur In It's About Time, N. David Mermin asserts that relativity ought to be an important part of everyone's education--after all, it is largely about time, a subject with which all are familiar. The book reveals that some of our most intuitive notions about time are shockingly wrong, and that the real nature of time discovered by Einstein can be rigorously explained without advanced mathematics. This readable exposition of the nature of time as addressed in Einstein's theory of relativity is accessible to anyone who remembers a little high school algebra and elementary plane geometry. The book evolved as Mermin taught the subject to diverse groups of undergraduates at Cornell University, none of them science majors, over three and a half decades. Mermin's approach is imaginative, yet accurate and complete. Clear, lively, and informal, the book will appeal to intellectually curious readers of all kinds, including even professional physicists, who will be intrigued by its highly original approach.