

[PDF] The Age Of Entanglement: When Quantum Physics Was Reborn (Vintage)

Louisa Gilder - pdf download free book

Books Details:

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Author: Louisa Gilder
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Description:

From Publishers Weekly The story of quantum mechanics and its lively cast of supporters, heretics and agnostics has always fascinated science historians and popular science readers. Gilder's version differs from the familiar tale in two important ways. First, by focusing on the problem of entanglement—the supposed telepathic connection between particles that a skeptical Einstein called spooky action-at-a-distance—Gilder includes more recent developments leading to quantum computing and quantum cryptography. Second, Gilder exercises—not wholly successfully—a daring creative license, drawing excerpts from papers, journals and letters to construct dialogues among the scientists. Science is rooted in conversations, Werner Heisenberg once wrote, and Gilder's created conversations reveal personalities as well as thought processes: Do you really believe the

moon is not there if no one looks? asks Einstein. Less comfortable aspects of the era are also part of Gilder's story, the uncertainty and fear as one scientist after another fled Nazi Germany, the paranoia of the Manhattan Project and the McCarthy era. Gilder's history is rife with curious characters and dramatizes how difficult it was for even these brilliant scientists to grasp the paradigm-changing concepts of quantum science. 20 illus., 15 by the author. (Nov. 12)
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Review "Captivating. . . . A movingly human and surprisingly accessible picture of the unveiling of the quantum universe. . . . Admirably lucid." —*Chicago Tribune*

"A sparkling, original book. . . . Gilder brings the reader into a mix of ideas and personalities handled with a verve reminiscent of Jeremy Bernstein's scientific portraits in *The New Yorker*. . . . What had been for generations a story of theoretical malcontents now intrigues spooks and startups. All this radiates from Louisa Gilder's story. Quantum physics lives." —*The New York Times Book Review*

"Highly entertaining. . . . Hard to put down. . . . Grippingly readable. . . . Gilder is a fine storyteller who brings to life one of the great scientific adventures of our time." —*American Scientist*

"[A] fascinating yarn. . . . For anyone who wants to understand the human angle of modern physics and separate quirks from quarks, this is your book." —*The Providence Journal* (A Best Book of 2008)

"A witty, charming, and accurate account of the history of that bugaboo of physics-quantum entanglement . . . There are many books out there on the history or foundations of quantum mechanics. Some are more technical, others more historical, but none take the unique approach that Gilder has—to focus on the quantum weirdness of entanglement itself as her book's unifying theme and to present it in an inviting and accessible way . . . Delightful." —*Science*

"Astonishing. . . . The courage and even audacity of a nonscientist to investigate the evolution of ideas about the most esoteric aspects of quantum physics are truly remarkable. . . . Gilder is a phenomenal writer." —*Charleston Post & Courier*

"A welcome addition to the genre. . . . [Gilder's] book really shines . . . [She] proves that the neglected last fifty years of quantum mechanics is . . . full of brilliant, quirky personalities and mind-bending discoveries. . . . She is a very compelling writer, and she clearly understands what makes science exciting and science history interesting." —*Scientific Blogging.com*

"The clearest and most intriguing history of the manner in which the scientific method continues to advance knowledge. An amazing story." —*Sacramento News & Review*

"A delightfully unconventional history. . . . Especially enjoyable are the portraits of the less famous physicists . . . Gilder has done her homework." —*Nature*

"[Gilder] displays an ability to capture a personality in a few words." —*The Washington Post*

"An admirable, unexpected book, historically sound and seamlessly constructed, that transports those of us who do not understand quantum mechanics into the lives and thoughts of those who did." —George Dyson, author of *Darwin Among the Machines*

"Louisa Gilder disentangles the story of entanglement with such narrative panache, such poetic

verve and such metaphorical precision that for a moment I almost thought I understood quantum mechanics.” —Matt Ridley, author of *Genome*

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