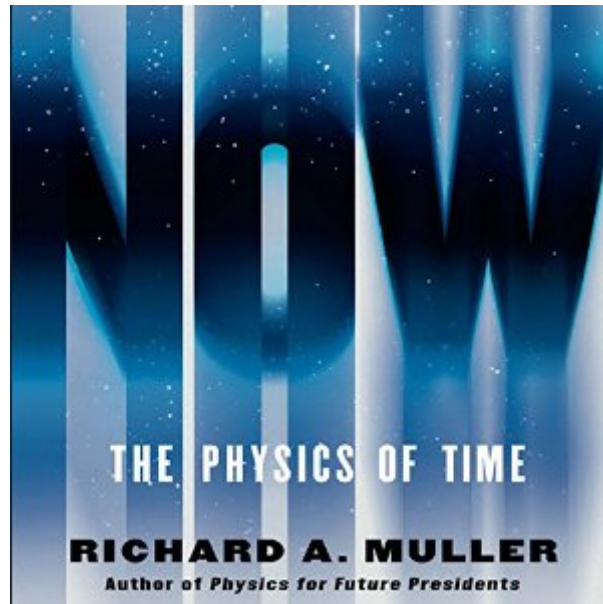# Now: The Physics Of Time - And The Ephemeral Moment That Einstein Could Not Explain

Synopsis

You are reading the word now right now. But what does that mean? What makes the ephemeral moment now so special? Its enigmatic character has bedeviled philosophers, priests, and modern-day physicists from Augustine to Einstein and beyond. Einstein showed that the flow of time is affected by both velocity and gravity, yet he despaired at his failure to explain the meaning of now. Equally puzzling: Why does time flow? Some physicists have given up trying to understand and call the flow of time an illusion, but eminent experimentalist physicist Richard A. Muller protests. He says physics should explain reality, not deny it. In Now, Muller does more than poke holes in past ideas; he crafts his own revolutionary theory, one that makes testable predictions. He begins by laying out - with the refreshing clarity that made Physics for Future Presidents so successful - a firm and remarkably clear explanation of the physics building blocks of his theory: relativity, entropy, entanglement, antimatter, and the big bang. With the stage thus set, he reveals a startling way forward. Muller points out that the standard big bang theory explains the ongoing expansion of the universe as the continuous creation of new space. He argues that time is also expanding and that the leading edge of the new time is what we experience as now. This thought-provoking vision has remarkable implications for some of our biggest questions, not only in physics but also in philosophy, including the ongoing debate about the reality of free will. Moreover, his theory is testable. Muller's monumental work will spark major debate about the most fundamental assumptions of our universe and may crack one of physics' longest-standing enigmas.

Book Information

Audible Audio Edition

Listening Length: 10 hoursÂ andÂ 2 minutes

Program Type: Audiobook

Version: Unabridged

Publisher: Random House Audio

Scheduled Audible.com Release Date: September 20, 2016

Language: English

ASIN: B01L7NB4QC

Best Sellers Rank: #32 inÂ Books > Science & Math > Experiments, Instruments & Measurement > Time   #54 inÂ Books > Science & Math > Physics > Relativity   #59 inÂ Books > Politics & Social Sciences > Philosophy > Free Will & Determinism

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