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## The Substance of Spacetime: Infinity, Nothingness, and the Nature of Matter (Paperback)

By Andrew Martin Ryan

Gadfly, United States, 2016. Paperback. Condition: New. 2nd Revised edition. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Does Spacetime Exist? If spacetime does not exist, it certainly does so in a curiously conspicuous way, not at all like other geometric abstractions. Consider this mindbender: spacetime does not exist at all, but it doesn't exist in the void even more than it doesn't exist in the universe. Is that the description of something that does not exist? Relativity theory treats spacetime as a mathematical abstraction—a four-dimensional coordinate system analogous to the three dimensions of Cartesian geometry. It does not exist, per se. It is not a thing in any tangible sense. It merely serves as the background needed to describe the behaviors of the real things that exist within it. It is no more than the stage on which the cosmic drama plays out. That's the theory. What if spacetime exists after all? Are we not obliged to take this stuff seriously and start asking questions? What are its properties? Where did it come from? Is spacetime a simple or a composite thing? Can it be broken into simpler parts? If not, are we compelled...



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