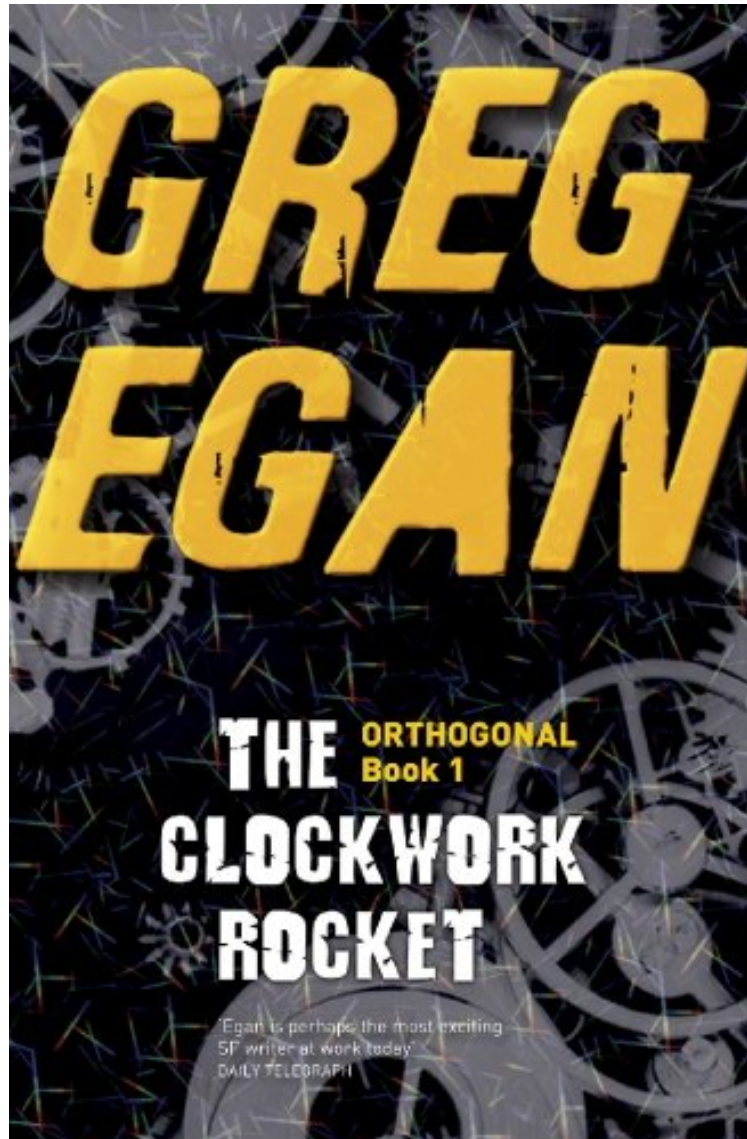


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## The Clockwork Rocket: Orthogonal Book One

Von Greg Egan

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**Von Greg Egan : The Clockwork Rocket: Orthogonal Book One** before purchasing it in order to gage whether or not it would be worth my time, and all praised The Clockwork Rocket: Orthogonal Book One:

KundenrezensionenHilfreichste Kundenrezensionen2 von 2 Kunden fanden die folgende Rezension hilfreich. This is \*real\* science fictionVon Jrme KunegisThis book answers the question: What if a minus sign was replaced with a plus sign in the laws of physics? Well, everything would change! Stars in the would leave rainbow-like trails, plants would emit light instead of absorbing it, objects could move at any speed (unlike in our universe where the speed of light is

the maximum). The book tells a story, and through the development of characters we learn the fictional universe's law of physics at the same time as the protagonists learn them. 'Orthogonal' achieves to do this without any mathematical expressions, only a few simple diagrams are shown here and there. A basic knowledge of special relativity is definitely required to enjoy the book. The book is complemented by the author's website which contains many exact mathematical derivations of the law of physics of this fictional universe, which go well beyond what I am able to understand. I will definitely read the two following books in trilogy.

**Kurzbeschreibung**In Yalda's universe, light has mass, no universal speed, and its creation generates energy; on Yalda's world, plants make food by emitting light into the dark night sky. And time is different: an astronaut might measure decades passing while visiting another star, only to return and find that just weeks have elapsed for her friends. On the farm where she lives, Yalda sees strange meteors that are entering the planetary system at an immense, unprecedented speed - and it soon becomes apparent that more of this ultra-fast material is appearing all the time, putting her world in terrible danger. An entire galaxy is about to collide with their own. There is one hope: a fleet sent straight towards the approaching galaxy, as fast as possible. Though it will feel like weeks back home, on board, millennia will pass before the collision, time enough to raise new generations, and time enough to find a way to stop the ultra-fast material. Either way, they have a chance to save everyone back on the home world.

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**Buchrückseite**In Yalda's universe, light has no universal speed and its creation generates energy. Plants make food by emitting their own light into the dark night sky. Yalda is a farm girl, but her father is proud of her insatiable curiosity and defies tradition by sending her to school, where she learns that there are other things than motherhood . . . And it is that curiosity that gives Yalda the strength to battle the strictures of her culture and the perils of biology to join the scientists who are slowly unravelling the mysteries of light. But when a series of strange meteors, the Hurlers, begin entering the planetary system at an immense, unprecedented speed, it becomes apparent that her world is in imminent danger - and that dealing with the Hurlers will require knowledge and technology far beyond anything her civilisation has yet achieved. There is one audacious solution: if a spacecraft can travel fast enough, it will return after just a few years have passed at home - but on board, generations will have come and gone, giving the travellers time to discover the science their planet urgently needs to avert disaster.

**THE CLOCKWORK ROCKET**, the first book of the **ORTHOGONAL** trilogy, follows the travellers as they try to survive the perils of their mission and carve out meaningful lives for themselves, while the threat of annihilation hangs over the world they left behind. 'Have faith in Egan's ability to create stunning, complex futures, with grand themes given a human dimension' Booklist '[Egan's] intellectually intense work creates the sense of a writer positioned at the genre's cutting edge, and in many ways setting the standard for others' Good Reading [www.gregegan.net](http://www.gregegan.net)