Record Nr. UNINA9910337881503321 Autore **Broderick Damien** Titolo The Time Machine Hypothesis: Extreme Science Meets Science Fiction / / by Damien Broderick Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2019 **ISBN** 3-030-16178-1 Edizione [1st ed. 2019.] Descrizione fisica 1 online resource (246 pages) Collana Science and Fiction, , 2197-1188 Disciplina 530.11 Soggetti **Physics** Mathematical physics Literature **Fiction** Popular Science in Physics Theoretical, Mathematical and Computational Physics Popular Science in Literature History and Philosophical Foundations of Physics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia PART ONE: Spacetime Time -- Time Travel Unraveled -- The Scientific Nota di contenuto Basis for Time Machines -- Closed Timelike Loops -- Don't Change the Past -- PART TWO: Time Machine Time -- The First Half Century (and a bit) -- Empires of Time -- Behold the Time Machine -- Time's Up --Highways to the End of Time -- Windows Into the Past -- From Dinosaurs to Elsewhen -- Looping Time -- PART THREE: A Thought Experiment is Not a Theory -- In Search of Lost Time Machines --Appendix: "The Dry Sauvages". . Every age has characteristic inventions that change the world. In the Sommario/riassunto 19th century it was the steam engine and the train. For the 20th, electric and gasoline power, aircraft, nuclear weapons, even ventures into space. Today, the planet is awash with electronic business, chatter and virtual-reality entertainment so brilliant that the division between real and simulated is hard to discern. But one new idea from the 19th century has failed, so far, to enter reality—time travel, using machines

to turn the time dimension into a two-way highway. Will it come true, as foreseen in science fiction? Might we expect visits to and from the future, sooner than from space? That is the Time Machine Hypothesis, examined here by futurist Damien Broderick, an award-winning writer and theorist of the genre of the future. Broderick homes in on the topic through the lens of science as well as fiction, exploring some fifty different time-travel scenarios and conundrums found in the science fiction literature and film.