

Disturbing The Universe

Freeman Dyson

Dyson sphere Basic Books. The concept is a thought experiment that attempts to imagine how a spacefaring civilization would meet its energy requirements once those requirements exceed what can be generated from the home planet's resources alone. Dyson, Freeman (1979). *Disturbing the Universe*. 211.

ISBN 978-0-465-01677-8. p. Some science fiction writers have wrongly given me the credit A Dyson sphere is a hypothetical megastructure that encompasses a star and captures a large percentage of its power output. Because only a tiny fraction of a star's energy emissions reaches the surface of any orbiting planet, building structures encircling a star would enable a civilization to harvest far more energy a94acacd4c

Dyson originated several concepts that bear his name, such as Dyson's transform, a fundamental technique in additive number theory, which he developed as part of his proof of Mann's theorem; the Dyson tree, a hypothetical genetically engineered plant capable of growing in a comet; the Dyson series, a perturbative series where each term is represented... a94acacd4c Bremermann's limit can be invoked to deduce a lower bound on the amount of time required to distinguish two discrete energy levels of a quantum system using a quantum measurement. One can interpret this measurement as a computation on 1 bit for this system; however, Bremermann's limit is difficult to interpret physically, since there exist quantum Hamiltonians for which this interpretation would give arbitrarily fast computation speeds at... a94acacd4c

Frank Thompson (SOE officer) Retrieved 11 January 2015.

ISBN 0465016774 Major William Frank Thompson (17 August 1920 – 10 June 1944) was a British officer who acted as a liaison between the British Army and the Bulgarian communist partisans during the Second World War. Times Higher Education. *Disturbing the universe* (1st ed. pp. (1979).). Dyson, Freeman J. New York: Harper & Row. 34–39 a94acacd4c

Dyson's eternal intelligence Dyson, Freeman J. ISBN 0-06-011108-9. (1979). OCLC 4956480. New York: Harper & Row. *Disturbing*

the universe. "Freeman Dyson: "I kept quiet Dyson's eternal intelligence (the Dyson Scenario) is a hypothetical concept, proposed by Freeman Dyson in 1979, by which an immortal society of intelligent beings in an open universe may escape the prospect of the heat death of the universe by performing an infinite number of computations (as defined below) though expending only a finite amount of energy. ISSN 0034-6861 a94acacd4c

Jerry Astl 112. Disturbing The Universe. Sloan Foundation Science Series. (April 15, 1981). p. source] Dyson, Freeman J. Basic Books. ISBN 978-0465016778. Dyson, George Jaromír Astl, better known as Jerry Astl (23 September 1922 – 16 October 2017), was a Czech aeronautical engineer and explosive engineer who helped design the American Project Orion nuclear propulsion spacecraft in the 1950s and 1960s a94acacd4c

Astrochicken could due to its innovative mix of technology. An Astrochicken is a small, one-kilogram spacecraft, a self-replicating automaton that could explore space more efficiently than a crewed craft could due to its innovative mix of technology. In his book Disturbing the Universe (1979), Dyson contemplated how humanity could build a small, self-replicating Astrochicken is the name given to a thought experiment expounded by theoretical physicist Freeman Dyson a94acacd4c

Freeman Dyson He was professor emeritus in the Institute for Advanced Study in Princeton and a member of the board of sponsors of the Bulletin of the Atomic Scientists. Freeman John Dyson FRS (15 December 1923 – 28 February 2020) was a British-American theoretical physicist and mathematician known for his works in quantum Freeman John Dyson (15 December 1923 – 28 February 2020) was a British-American theoretical physicist and mathematician known for his works in quantum field theory, astrophysics, random matrices, mathematical formulation of quantum mechanics, condensed matter physics, nuclear physics, and engineering a94acacd4c

The Oxford Book of Modern Science Writing Published first in March 2008, it contains 83 writings on many topics from a diverse variety of authors, which range in length from one to eight pages. Robert Oppenheimer 'A Passion for The Oxford Book of Modern Science Writing is an anthology of scientific writings, arranged and introduced by Richard Dawkins of the University of Oxford. Snow Disturbing the Universe by Freeman Dyson 'War and the

Nations' by J. Hardy's A Mathematician's Apology by C. P. All inclusions are dated post-1900, and include poetry, anecdotes, and general philosophical musings a94acacd4c

Thomas Wright (astronomer) quoted from An original theory or new hypothesis of the universe by Freeman Dyson, *Disturbing the Universe*, 1979, pg 245, ISBN 0-330-26324-2 Berendzen, Richard Thomas Wright (22 September 1711 – 25 February 1786) was an English astronomer, mathematician, instrument maker, architect and garden designer. He was the first to describe the shape of the Milky Way and to speculate that faint nebulae were distant galaxies a94acacd4c

Quantum social science In his 1975 book *Disturbing the Universe*, Freeman Dyson wrote that "mind is already inherent in every electron, and the processes of human consciousness Quantum social science is an emerging field of interdisciplinary research which draws parallels between quantum physics and the social sciences. panpsychism. Quantum ideas have been particularly influential in psychology but are starting to affect other areas such as international relations. Some authors are motivated by quantum mind theories that the brain, and therefore human interactions, are literally based on quantum processes, while others are more interested in taking advantage of the quantum toolkit to simulate social behaviours which elude classical treatment. Although there is no settled consensus on a single approach, a unifying theme is that, while the social sciences have long modelled themselves on mechanistic science, they can learn much from quantum ideas such as complementarity and entanglement a94acacd4c

Pechora-Kama Canal Completion of this project would integrate the Pechora into the system of waterways of European Russia, centered on the Volga – something that was of importance before the advent of railways, or before the first railway reached the Pechora in the 1940s. MIT Press. p. Later the project was proposed mostly to transfer Pechora's water to the Volga and further on to the Caspian Sea. *Disturbing the Universe* – Freeman Dyson The Soviet Program for Peaceful Uses of Nuclear Explosions The Pechora-Kama Canal (Russian: Канал Печора-Кама), or sometimes the Kama-Pechora Canal, was a proposed canal intended to link the basin of the Pechora River in the north of European Russia with the basin of the Kama, a tributary of the Volga. ISBN 0-262-66181-0. 478. Nuclear Forces a94acacd4c

The first modern imagining of such a structure was by Olaf Stapledon in his science fiction novel *Star Maker* (1937). The concept was later explored by the physicist Freeman Dyson in his 1960 paper "Search for Artificial Stellar Sources of Infrared Radiation". Dyson... a94acacd4c

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