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Exo-S: Starshade Probe-Class Exoplanet Direct Imaging Mission Concept

By NASA

Createspace, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.For the first time in human history, the technological reach exists to discover and characterize planets like Earth orbiting stars other than the Sun. A space-based direct imaging mission to ultimately find and characterize other Earths is a long-term priority for space astrophysics (NRC 2010). The Exo-Starshade (Exo-S) Science and Technology Definition Team (STDT) is tasked by NASA to study the starshade-telescope mission concept under the Probe class of space missions, with a total cost of less than \$1B (FY15 dollars). Per the STDT charter, the mission should be ready for a new start in 2017, with launch in 2024, and the science must be beyond the expected ground capability at the end of the mission. The Exo-S mission concept study began in May 2013 and will run until the Final Report delivery in January 2015.



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