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Design of a Representative Low Earth Orbit Satellite to Improve Existing Debris Models

By S. Clark

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This paper summarizes the process and methodologies used in the design of a small-satellite, DebrisSat, that represents materials and construction methods used in modern day Low Earth Orbit (LEO) satellites. This satellite will be used in a future hypervelocity impact test with the overall purpose to investigate the physical characteristics of modern LEO satellites after an on-orbit collision. The major ground-based satellite impact experiment used by DoD and NASA in their development of satellite breakup models was conducted in 1992. The target used for that experiment was a Navy Transit satellite (40 cm, 35 kg) fabricated in the 1960s. Modern satellites are very different in materials and construction techniques from a satellite built 40 years ago. Therefore, there is a need to conduct a similar experiment using a modern target satellite to improve the fidelity of the satellite breakup models. The design of DebrisSat will focus on designing and building a next-generation satellite to more accurately portray modern satellites. The design of DebrisSat included a comprehensive study of historical LEO satellite designs and missions within the past 15 years for...



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