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# LOW EARTH ORBITAL ATOMIC OXYGEN INTERACTIONS WITH SPACECRAFT MATERIALS



Low Earth Orbital Atomic  
Oxygen Interactions With  
Spacecraft Materials

NASA Technical Reports Server  
(NTRS), et al., Bruce A. Banks

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 22 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. Atomic oxygen, formed in Earth's thermosphere, interacts readily with many materials on spacecraft flying in low Earth orbit (LEO). All hydrocarbon based polymers and graphite are easily oxidized upon the impact of approx. 4.5 eV atomic oxygen as the spacecraft ram into the residual atmosphere. The resulting interactions can change the morphology and reduce the thickness of these materials....

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- Authored by Bruce A. Banks
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