



## Safety Design for Space Operations: Chapter 9. Re-Entry Operations Safety

By Paul D. Wilde, William Ailor

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From the beginning of humankind's use of space, human-made objects have re-entered the Earth's atmosphere and experienced the severe aerodynamic heating and loads characteristic of high-speed atmospheric re-entry. Some of these reentries have generated fragments that survived to impact the Earth's surface and be hazardous to people and damaging to property. This chapter addresses the safety of both broad types of space hardware re-entries: either controlled so impact is targeted in a specific area, or uncontrolled, where re-entry can occur anywhere within the latitude band defined by the orbital inclination of the reentering object. The overall objective of this chapter is to help prepare safety engineers to answer the ultimate questions involved in the design of safety re-entry operations.

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