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and tactical and strategic missile systems including subsystems applications missions environmental interactions and space sciences the journal publishes original archival papers disclosing significant developments in spacecraft and missile configurations reentry devices a spacecraft is a vehicle that is designed to fly in outer space and operate there spacecraft are used for a variety of purposes including communications earth observation meteorology navigation space colonization planetary exploration and transportation of humans and cargo spaceflight flight beyond earth s atmosphere this article deals with the basic concepts associated with the launch and return of unmanned and manned spacecraft and their travel navigation and rendezvous and docking in space current crewed spacecraft are the most complex aerospace vehicles in use at the turn of the 21st century were the u s space shuttle the russian spacecraft soyuz the russian space station mir deliberately taken out of orbit in 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