Modeling INS/GPS/Star-Tracker in 6 DoF: Simulating N&G&C of a Three-Stage Rocket Booster in CADAC++

Dr. Peter H Zipfel

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Treat yourself to a book that combines theory with application. The operational equations of INS/GPS and star-trackers are derived and embedded into a three-stage solid rocket booster. Instead of hardware, you use a high fidelity simulation in C++, which launches the rocket that places a payload into low orbit. This six degrees-of-freedom simulation uses the CADAC++ framework and can be obtained, free of charge, following the instruction in the book. The author participated in the early applications of INS/GPS to U.S. Air Force systems, and taught courses at the University of Florida, while developing computer simulations first in Fortran and then in C++. He is the founder of Modeling and Simulation Technologies, teaching the use of aerospace simulations. Other publications by the author : Modeling and Simulation of Aerospace Vehicle Dynamics Building Aerospace Simulations in C++ Fundamentals of Six DoF Aerospace Simulations and Analysis in C++ Advanced Six DoF Aerospace Simulations and Analysis in C++ 2014 American Institute of Aeronautics and Astronautics

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