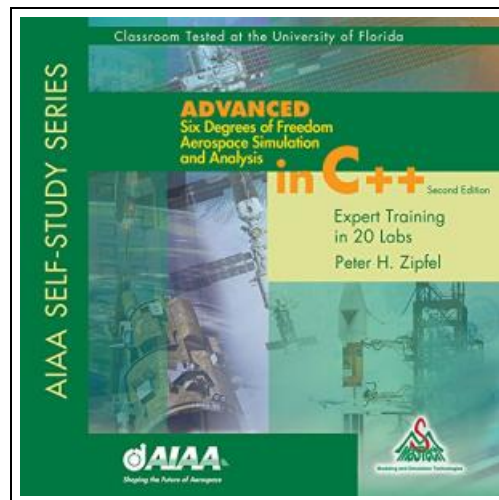


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Good e book and useful one. It really is simplistic but shocks in the 50 % of your book. Your way of life period will probably be convert the instant you total reading this ebook.

(Myah Williamson)

ADVANCED SIX DEGREES OF FREEDOM AEROSPACE SIMULATION AND ANALYSIS IN C++



American Institute of Aeronautics Astronautics, United States, 2014. CD-ROM. Book Condition: New. 2nd Revised edition. Language: English . Brand New. The culmination of the AIAA Self Study Series on modeling and simulation (MS) is this course on high fidelity aerospace simulations. If you have mastered Peter Zipfel s previous publications, or if you are a professional working in MS, you will profit from this interactive training on advanced aerospace systems in C++. In 20 Labs you learn how to formulate the six-degrees-of-freedom equations of motion over the WGS-84 rotating elliptical Earth and study the aerodynamics, propulsion, and flight controls of a hypersonic ascent vehicle. Then you insert a transfer vehicle into orbit, and release an interceptor that rendezvous with a space station or intercepts a satellite. You use 17 progressively more complex simulations that model such advanced systems as INS, GPS with Kalman filter, star tracker, rendezvous, and intercept guidance with phased array seeker. You will be rewarded with a sophisticated simulation of a three stage hypersonic vehicle with orbiting space station and ground tracking radar, as well as Matlab(R) m-files for flight controller design. This course builds on two other self-study courses entitled Building Aerospace Simulations in C++, Third Edition and is followed by Fundamentals of Six Degrees of Freedom Aerospace Simulation and Analysis in C++, Second Edition. All three complement Peter Zipfel s textbook Modeling and Simulation of Aerospace Vehicle Dynamics, Third Edition published in the AIAA Education Series. You may picture yourself in the classroom at the University of Florida with students who have used the same material to earn three graduate credits. All you need is this course, the textbook, the Visual C++ compiler (free Express version from Microsoft) and a Windows based PC (32 or 64 bit). You can download the complimentary CADAC4 which contains...



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