

Building Aerospace Simulations in C++

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Reviews

Very useful to any or all group of folks. It really is rally interesting throgh reading through period of time. Once you begin to read the book, it is extremely difficult to leave it before concluding. (Mrs. Dorris Wintheiser)

BUILDING AEROSPACE SIMULATIONS IN C++



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American Institute of Aeronautics Astronautics, United States, 2014. CD-ROM. Book Condition: New. 3rd Revised edition. Language: English . Brand New. Apply the power of C++ to aerospace vehicle simulations with this self-study course and take advantage of its multi-object feature to model interacting UAVs with satellites and targets. Building on your basic understanding of C++ and your familiarity with flight dynamics, you take a course taught at the University of Florida, learn from the PowerPoint presentation, and work the assignments. The 16 labs, divided into 32 training units, bring to life polymorphism, inheritance, and encapsulation by hands-on experimentation with 27 increasingly more complex simulations. In 38 exercises you apply your skills and check your progress against the provided solutions. This course complements the textbook Modeling and Simulation of Aerospace Vehicle Dynamics, Third Edition published in the AIAA Education Series. It shows you how aerodynamics, propulsion, flight control, and navigation guidance are translated into C++ code and combined to simulate full-up aerospace vehicles. 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 CADAC Studio for plotting. This third edition has been upgraded to the latest CADAC++ framework and Microsoft C++ compiler. All PowerPoint slides are now in PDF format. You are rewarded by a net-centric simulation with multiple UAVs and overhead satellites tracking ground targets, which may serve as the starting point for you own project. For a glimpse into an advanced simulation, this course concludes with a six-degrees-of-freedom air-to-air engagement simulation. After completing this training, you can further advance your skills with the other two courses in this AIAA Self-Study Series: Fundamentals of Six Degrees of Freedom Aerospace Simulation and Analysis in C++, Second Edition...

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