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By Peter Zipfel

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....



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