

## Building Aerospace Simulations in C++

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....



**READ ONLINE**  
[ 5.86 MB ]

### Reviews







*Very beneficial to all of class of people. I am quite late in start reading this one, but better then never. You may like just how the writer create this publication.*

-- **Audra Klocko PhD**

*Thorough information! Its this type of great go through. It is amongst the most incredible publication i actually have read through. It is extremely difficult to leave it before concluding, once you begin to read the book.*

-- **Germaine Welch**

## Related eBooks

	<p><b>Electronic Dreams: How 1980s Britain Learned to Love the Computer</b></p> <p>Audible Studios on Brilliance, United States, 2016. CD-Audio. Book Condition: New. Unabridged. 170 x 135 mm. Language: English . Brand New. Remember the ZX Spectrum? Ever have a go at programming with its stretchy rubber keys? Did you marvel at the immense...</p>
	<p><b>My Windows 8.1 Computer for Seniors (2nd Revised edition)</b></p> <p>Pearson Education (US). Paperback. Book Condition: new. BRAND NEW, My Windows 8.1 Computer for Seniors (2nd Revised edition), Michael Miller, Easy, clear, readable, and focused on what you want to do Step-by-step instructions for the tasks you care about most Large, full-color,...</p>
	<p><b>Bringing Elizabeth Home: A Journey of Faith and Hope</b></p> <p>BRILLIANCE AUDIO, United States, 2015. CD-Audio. Book Condition: New. Unabridged. 170 x 133 mm. Language: English . Brand New. At 3:58 in the morning of June 5, 2002, Ed and Lois Smart awoke to the sound of their nine-year-old daughter Mary Katherine...</p>
	<p><b>Patent Ease: How to Write Your Own Patent Application</b></p> <p>Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Patent Ease! The new How to write your own Patent book for beginners! Because you are a beginner; not a...</p>
	<p><b>Would It Kill You to Stop Doing That?</b></p> <p>Book Condition: New. Publisher/Verlag: Little, Brown Book Group   A Modern Guide to Manners   A laugh-out-loud guide to modern manners by acclaimed humorist, author, and Vanity Fair columnist Henry Alford.   A few years ago, humorist and journalist Henry Alford found...</p>
	<p><b>Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success</b></p> <p>Brookes Publishing Co. Paperback. Book Condition: new. BRAND NEW, Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success, Eva M. Horn, Susan B. Palmer, Gretchen D. Butera, Joan A. Lieber, How can inclusive early educators plan and deliver...</p>