



# Testing and Quality Assurance for Component-Based Software (Artech House Computing Library)

By Jerry Z. Gao

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Presenting the state-of-the-art in component-based software testing, this new, cutting-edge resource offers you an in-depth understanding of the current issues, challenges, needs, and solutions in this critical area. The book discusses the very latest advances in component-based testing and quality assurance in an accessible tutorial format, making the material easy to comprehend and benefit from no matter what your professional level. The book clearly explains what component-based software testing is, why it is important, and how it differs from traditional software testing. From an introduction to software components, testing component-based software, and validation methods for software components, to performance testing and measurement, standards and certification, and verification of quality for component-based systems, you get a revealing snapshot of the key developments in this area, including important research findings. This unique volume also serves as an excellent textbook for related courses at the advanced undergraduate or graduate level.

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### **Editorial Review**

#### **About the Author**

Jerry Zeyu Gao is an associate professor of the department of computer engineering at San Jose State University. He received his M.S. and Ph.D. in computer science from the University of Texas at Arlington. He has published over 35 technical papers in IEEE/ACM journals, magazines, and international conferences, and is a co-author of another book in software testing.

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