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Object-Oriented and Mixed Programming Paradigms: New Directions in Computer Graphics

By -

Springer. Paperback. Condition: New. 196 pages. Dimensions: 9.0in. x 6.0in. x 0.6in. The area of computer graphics is characterized by rapid evolution. New techniques in hardware and software developments, e. g. , new rendering methods, have led to new applications and broader acceptance of graphics in fields such as scientific visualization, multi-media applications, computer aided design, and virtual reality systems. The evolving functionality and the growing complexity of graphics algorithms and systems make it more difficult for the application programmer to take full advantage of these systems. Conventional programming methods are no longer suited to manage the increasing complexity, so new programming paradigms and system architectures are required. One important step in this direction is the introduction and use of object-oriented methods. Intuition tells us that visible graphical entities are objects, and experience has indeed shown that object-oriented software techniques are quite useful for graphics. The expressiveness of object-oriented languages compared to pure procedural languages gives the graphics application programmer much better support when transforming his mental intentions into computer code. Moreover, object-oriented software development is a well founded technology, allowing software to be built from reusable and extensible components. This book contains selected, reviewed and thoroughly revised...



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