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10 Botanical Tree Image Generation
   
   Masaki Aono and Tosiyasu L. Kunii
   
   It may be true, as the poet said, that "... only God can make a tree," but through geometric modeling a computer graphics system can produce a remarkable likeness.

36 Three-Dimensional Digital Display of Ultrasonograms
   
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   Computerized projection and display of hundreds of sequential ultrasonic images can yield molded 3-D images of an object's surface that are useful in exact disease diagnosis.

46 High-Speed Techniques for a 3-D Color Graphics Terminal
   
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   Innovative concepts in hardware architecture and data structure enable graphics processing at a speed about five times that of conventional raster-scan devices.

61 A Low-Cost Drafting System Based on a Personal Computer
   
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   A hierarchical command structure and separate drafting and display files allow ease of use and quick response in this 2-D drawing system.

68 ALIS: A Geographical Information System for Urban Research
   
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   Computer graphics can help solve urban problems. The ALIS geographic information system presents up-to-date, detailed information in a form planners can use: the interactive map.

79 Extended Depth-Buffer Algorithms for Hidden-Surface Visualization
   
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   Users of interactive CAD systems who are trying to cope with the hidden-surface visualization problem will want to investigate this new algorithm.

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