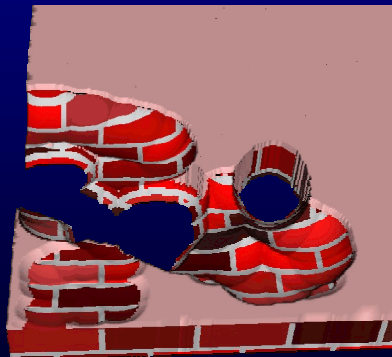


Sculpting 3D Models



Dorsey & McMillan

- Combines the fidelity of a boundary representations with the flexibility of a volumetric model
- Interactive surface modification
 - u Rich set of shaping tools
 - u Tools for simulating natural processes
 - u Tactile feedback
- Multi-resolution
 - u adaptive rendering speed
 - u quality and resolution-demand

FOR MORE INFO... see www.graphics.lcs.mit.edu



3D Surface Exploration

Next: Stage II

- Integrate head-tracked stereo display with optic interface
- Large format plasma display
 - u Virtual working surface
 - u Usable in ambient light
 - u Flat (no projection)
- Natural interface
 - u Aids comprehension
 - u Direct manipulation of surfaces
 - u Interact with simulation



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Future Directions

- Multiuser stereo displays
- Modeling layered and composite materials
- Virtual user-guided simulation environments
- Materials that deform, change shape and appearance through manipulation
- Next generation 3D modeling system

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