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Ray-Surface intersection algorithms

- Polygons and parametric surfaces
- Algebraic and implicit surfaces; quadrics
- Procedural models; CSG

Acceleration techniques: Efficient ray queries

- Find the closest intersection?
- Is there any intersection?

Mathematical Technique

- Reduce rendering to integration and sampling
- Monte Carlo ray tracing

CS348B Lecture 1

Pat Hanrahan, Spring 2001











































