CS 557

Computer Graphics Shaders

Project 4: Cube Mapping Reflective and Refractive Bump-mapped Surfaces

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Q: What you did and explaining why it worked this way

Answer:

I developed a project that uses cube-mapping to create a reflective and refractive display of a bump-mapped math function. The approach involved creating a math function, generating a bump map, and using cube mapping to create a realistic environment. Two slider variables were implemented to allow user interaction: uMix, for blending reflective and refractive versions of the scene, and uEta, for adjusting the index of refraction. No lighting was included in the scene, relying instead on the cube map for realistic reflections and refractions.

Link:

https://media.oregonstate.edu/media/t/1_amtwvbrt

ScreenShots:









