Simulation of water waves

© A.V. Kurov, K.A. Yakil

Bauman Moscow State Technical University, Moscow, 105005, Russia

The article is concerned with methods of modeling waves on the surface of liquid including circular wave and superposition of run waves. Program of wave visualization, based on scanline z-buffer algorithm and simple Phong model, is submitted. The article contains methods of increasing speed of the algorithm.

Keywords: water surface, circular waves, waves, waves superposition, scanline z-buffer, lighting model.

Kurov A.V. (b. 1955) graduated from Bauman Moscow Higher Technical School in 1978. Ph.D., Assoc. Professor of the Software and Information Technologies Department of Bauman Moscow State Technical University. Author of more than 50 treatises in the field of reliability of computer systems and computer software. e-mail: avkur7@mail.ru

Yakil K.A. (b. 1993), a student of the Software and Information Technologies Department of Bauman Moscow State Technical University. e-mail: tricia@ngs.ru