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This diatom was originally recorded as a holomicrogram of a bright-field microscope image which was transformed, after the fact, into interferometric phase-contrast and other types of microscope image. This procedure demonstrates the potential of holography as a means for freezing in time a transient event for subsequent examination by a variety of optical techniques. See page 1195. [Gordon W. Ellis, Dartmouth Medical School, Hanover, New Hampshire]