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**Zengxiang Tong\*** (ztong@otterbein.edu), Department of Mathematical Sciences, Otterbein College, Westerville, OH 43081, and **Zhen Huang** (zhuang@otterbein.edu), Department of Mathematical Sciences, Otterbein College, Westerville, OH 43081. *Liu Hui: A Great Ancient Chinese Mathematician*. Preliminary report.

Liu Hui (about 263 A.D.) was one of the greatest ancient Chinese mathematicians. This paper introduces and analyzes Liu Hui's major contributions to mathematics: method of cutting circle, cutting-pasting method in geometry, repeated difference method in surveying, marvelous proof of Pythagorean theorem, and a variety of formulas of volumes of solids. (Received May 05, 2000)