

1135-VB-2327 **Clarissa McMillar*** (mcmillar_c06478@utpb.edu). *The Mathematics of Eastern Architecture*. Preliminary report.

Egypt's pyramids are often thought of as the single most computationally complex structures of the ancient world. Various studies have been conducted to discuss how the Egyptians managed such feats, but the impressive structures of China are not usually discussed in the same breath. The East's history is far reaching and a concentrated, mathematical study of their structures will reveal the state of mathematics during that time period as well as its distinguishing characteristics. Early architects were mathematicians who used their exceptional understanding of geometry to plan for events as catastrophic as earthquakes. Many of these structures have stood the test of time. Equally as interesting as the Egyptian pyramids, there will be a lot to learn. (Received September 25, 2017)