

The Mystery of the Great Pyramids of Egypt, A Partial Solution

By

Michel Barsoum

Department of Materials Science and Engineering
Drexel University, Philadelphia, PA 19104

For 5000 years the mystery of how the Great Pyramids of Giza were built has endured. How did the Ancient Egyptians pull 70 ton granite slabs up an earthen ramp - without the benefit of wheels - 2/3 up the Great Pyramid? Antigravity machines? UFO's? How did they carve granite, with pure Cu - not brass - but pure Cu? Solid solution softening? Mystical Pyramid Power? How did they, in 23 short years, carve the millions of limestone blocks - enough blocks Napoleon's engineers told him to build a 10 ft high by 1 ft deep wall around the entire country of France - and haul them up the Pyramids at the rate of roughly one every six - not a typo - minutes. Caterpillar? Mack trucks? Not only that, but also have some of the blocks fit so well together that up to today a playing card cannot be inserted between some of them. Lasers? Diamond cutting tools? Surprisingly, this long-standing mystery was partially solved by a French material scientist in the Eighties; even more surprisingly, the solution is elegant, brilliant and quite simple indeed. In this talk I will present conclusive scientific evidence that the solution proposed, over 20 years ago, is indeed correct. The historical, archeological and technological implications to today's world are truly profound and will be touched upon.