ABSTRACT

The present chapter deals with the problem of determining the method used to draw several celebrated and beautiful wall-paintings belonging to the Late Bronze Age (c. 1630 B.C.), that were excavated at Akrotiri, Thera, Hellas (Greece). First, the authors process the wall paintings’ digital images in order to extract the contour of their main thematic entities. Subsequently, a number of fundamental definitions are
A Digital Investigation Manifesting use of Geometric Stencils

Around 1620 B.C. a huge volcanic eruption took place in the Hellenic (Greek) island of Thera, in the Aegean Sea, which buried under a thick layer of volcanic ash the settlement that flourished in Akrotiri, a small town in the southern part of the island. (Doumas 1990, 1999). This huge geological dramatic event trapped the whole Akrotiri town. A part of this town has been unearthed by late professor Marinatos and subsequently professor Christos Doumas the present Director of the excavation site. The finds in the ruins of the settlement gives us the opportunity to get a particularly good idea of the Aegean civilization in the Late Bronze Age. The excavations there revealed that the settlement was present in the region from the beginning of the fifth millennium B.C. The archaeological finds excavated at Akrotiri have attracted the attention of many researchers coming from various disciplines. The most important finds are the amazingly well preserved wall-paintings which, apart from their great cultural value, give valuable information concerning the spiritual and social level of the Aegean civilization in the Late Bronze Age. (Doumas 1999)

THE MAIN SCOPE OF THE RESEARCH PRESENTED IN THIS CHAPTER: A BRIEF SUMMARY OF THE INTRODUCED METHODOLOGY

A Set of Fundamental Conjectures

A careful inspection of various wall paintings unearthed at Akrotiri, Thera, reveals that the contour lines of the various drawn figures manifest a noticeable stability and
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