

Summary

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The title of this thesis is "Evaluation of Cleaning Techniques by Laser and the Other Traditional Methods Used for Cleaning Gilded Archaeological Wooden Objects Applied on Some Chosen Objects".

This research includes five chapters:

The first chapter is the history of Egyptian gilding techniques and materials through ages from the pharaonic period to the Islamic one.

The second chapter deals with the most important techniques and materials used for gilding

The chapter focused on the chemical and physical properties of gold leaves, their chemical composition, the method of preparing them for usage and different methods of application such as water gilding and oil gilding.

The third chapter highlights different deterioration factors and aspects of gilded archaeological wood

The forth chapter is concerned with the scientific fundamentals for conservation of gilded wood. The chapter specifically will focus on the evaluation of cleaning gilded wood by laser and the other traditional methods of cleaning..

Then the chapter includes Using Laser Technology for Cleaning Gilded Archaeological Wood.

The fifth chapter is concerned with an applied comparative study of using laser technology and the other traditional methods for cleaning different gilded wooden objects and samples.