Ain Shams University
Faculty of Science
Chemistry Department

EVALUATION OF DYEING AND FINISHING PROCESSES IN ONE BATH OF SOME EGYPTIAN COTTON VARIETIES

A thesis submitted by

Ayman Nageh Aziz

B.Sc. Chemistry,1995

To

Chemistry Department, Faculty of Science

Ain Shams University

In Partial fulfillment of
The requirements for the Degree of Master in Chemistry
2009

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Acknowledgment

First of all and above, I thank and pray to **ALLAH** for explicitly known and uncountable reasons.

My deep appreciation and sincere thanks to Prof. Dr. **Ahmed Ismail Hashem**; Professor of Organic Chemistry, Faculty of Science, Ain Shams University, for sponsoring this thesis, continuous encouragement and guidance.

Heartily, I would like to express my grateful gratitude to Dr. **Salah El-Dean Hassanein Shakra**; Professor of Organic Chemistry, National Research Center, and Dr. **Salah Mansour Saleh**, Assistant Professor of Textile Chemistry, head of Dyeing and Finishing Unit, Cotton Research Institute, not only for suggesting the subjects investigated, but also for their valuable discussions and criticism during the course of this work.

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Abstract

Conventional dyeing process consists of four main steps; desizing, scouring, bleaching and dyeing. It is considered as one of the most pollution industrial process. In this investigation, preliminary finishing and dyeing some Egyptian cotton verities (Giza 80 and Giza 89) are performed in one bath. In order to emphasize the suitability of this method, the physical and mechanical properties of the dyed fabrics were determined and compared with those dyed by the conventional method.

It is believed that applying this new technique will: (i) save energy, water, chemicals and time, and (ii) minimize the extent of pollution and therefore if will be eco-friendly.