



*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
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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 varieties (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 it will be eco-friendly.