

Ain Shams University  
The Faculty of Engineering

**“THE SEQUENCE OF BUILDING NEW RESIDENTIAL COMMUNITIES  
IN UNDER-DEVELOPED COUNTRIES”**

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A THESIS

SUBMITTED IN PARTIAL FULFILMENT FOR THE  
REQUIREMENTS OF THE DEGREE OF MASTER OF  
SCIENCE IN ARCHITECTURAL ENGINEERING

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CAIRO - 1988

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DATE :    /    / 1988

STATEMENT:

THIS DISSERTATION IS SUBMITTED TO AIN SHAMS UNIVERSITY FOR THE DEGREE OF MASTER OF SCIENCE IN ARCHITECTURAL ENGINEERING - TOWN PLANNING - .

THE WORK INCLUDED IN THIS THESIS HAS BEEN CARRIED OUT BY THE AUTHOR IN THE DEPARTMENT OF ARCHITECTURAL ENGINEERING , AIN SHAMS UNIVERSITY, FROM 9/1983 TO 1988 .

NO PART OF THIS THESIS HAS BEEN SUBMITTED FOR A DEGREE OR A QUALIFICATION AT ANY OTHER UNIVERSITY OR INSTITUTION.

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## S U M M A R Y

The sequence of building new Residential Communities in Under-developed Countries has been studied to evaluate the Development of new communities in Egypt. In view of their national, environmental, political and management characteristics and in their relation to the fourth coming social, technical and residential growth was considered as bases of this study. The research consists of two parts:

### PART I

Includes the basic studies and researches concerning subject of the work. This part consists of four chapters, summarized as follows:

#### CHAPTER I :-

Previous theories used in sequential building are surveyed through different historical ages. This part is followed by a study of the

nature of sequential building in Under-developed communities according to national, regional, political and Management determinants, a definition for the sequence of residential Growth concludes chapter 1.

## CHAPTER 2 :-

This chapter handles the sequence of the general Urban skeleton structure of new communities and its development according to :

- \* Geometric Characteristics and Development growth of the structure planning.
  
- \* Potentials of sequential building as functional elements

according to preliminary functional requirements.

### CHAPTER 3 :

This chapter investigates the effect of Social Barriers resisting the sequential Development plans in addition to an investigation of the growth of residential Phases Group and social Basic Structure for the community.

### CHAPTER 4 :

The general building structures Hierarchy or Framework for a new community is reviewed according to the economical characteristics of the community defining the rate of sequential changes and the optimum volume of the community, through the phases of development, taking the economical obstacles into consideration.

## PART II

A comparative analysis has been carried out compare between the aimed Goals of the 10th of Ramadan City and the existing situation 10 years after construction. The comparative factors are the infra-structure, public services, housing, industry and residential and economical growth.

The researcher concludes the research with a recommendation that the stages of residential growth should be within a comprehensive frame of national and environmental planning procedure covering all building, social and economical considerations.