

مركز أبحاث البناء

BUILDING RESEARCH AND TRAINING CENTER

Tahrir Street, Dokky, Giza, Egypt, U.A.R.

الفواعل التطبيقية
لتصميم وتنفيذ الخرسانة المسلحة في المباني

CODE OF PRACTICE
For The Use of
REINFORCED CONCRETE
IN BUILDINGS

جاري صياغتها باللغة العربية

المركز القومي لبحوث الإسكان والبناء
Housing & Building National Research Center
Since 1954

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OCTOBER, 1960

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1- INTRODUCTION

1-1 Scope :

The following code of practice covers the use of normal reinforced concrete in ordinary structures. They are intended to supplement the general provisions for materials, design and construction. Special reinforced concrete structures such as bridges and fluid containers, are to be dealt with in corresponding special codes. The design and execution of reinforced concrete work are entrusted only to qualified persons, for whom this code of practice is issued as rules and guidance.

1-2 Definitions :

Concrete : A suitably proportioned mixture of aggregate, cement and water.

Reinforcement : Rods, bars or fabric of structural steel, embeded in concrete for the purpose of resisting particular stresses.

Plain Concrete : Concrete without reinforcement.

Reinforced Concrete: Concrete in which reinforcement is embeded in such a manner that the two materials act together in resisting the loads.

1-3 Notations :

| | | |
|----------|---|-----------------------------------|
| A | : | Area |
| A_c | : | Area of concrete |
| A_s | : | Area of steel |
| $A_{s'}$ | : | Area of steel in compression side |
| A_k | : | Area of core |
| A_{st} | : | Area of stirrups |
| A_{sp} | : | Area of spiral |