

# CHAPTER (4)

## DESIGN OF DISTRIBUTION BOARDS, CABLE FEEDERS, WIRES, TRANSFORMERS AND GENERATORS

### 4.1 Introduction

This chapter introduces the calculation methods for distribution boards (main, sub-main, service and lighting), short circuit capacity, cable feeders, risers, wires, voltage drop, transformers and emergency diesel generator set.

### 4.2 Design Calculations of Distribution Boards:

The distribution boards contains main circuit breaker and sub-main circuit breakers. The calculation of the main circuit breaker may be carried out using two schemes. The first one is the load estimation technique and the second is to use the summation of the connected loads power of three phases, then calculate the current from the power relation.

#### 4.2.1 Design Calculations of Main Circuit Breakers:

##### ❖ Load Density Estimation Technique

Before starting the load estimation, area and load density of each place should be known. Load density differs from place to another as follow:

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groups were involved in the preparation of the 13 chapters of the book making *Organoselenium Chemistry Between Synthesis and Biochemistry* an excellent reference about selenium chemistry for researchers and graduate students in the field of selenium chemistry

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improved the survival rate of cancer patients over the last few decades Therapeutic Revolution relates the story of one of the great scientific tales of the twentieth century how the field of medical oncology was created and its development owing to medical and scientific breakthroughs The book unfolds the pre clinical and clinical concepts and innovations that led to the creation of the medical subspecialty now known as medical oncology Therapeutic Revolution is the first book ever written on the events that led to this subspecialty of internal medicine It relates the recollection of key events obtained from interviews of the pioneers who laid the foundations of medical oncology as well as the author's own experience of the pre specialty era of medical practice The book is essential reading for medical oncologists and for all readers interested in the history of cancer treatment and also serves as a historical primer for medical students learning oncology **Cutting Edge Therapies**

**for Cancer in the 21st Century** Pier Paolo Claudio,Paraskevi Vogiatzi,2014-04-23 Cancer is a broad group of diseases involving unregulated cell growth with elevated death rates as more people live in old age with mass lifestyle changes occurring in the world The causes of cancer are diverse complex and still only partially understood The chances of surviving the disease vary remarkably by the type and location of the malignancy and the extent of disease at the start of treatment Early cancer detection is proving to be a valid approach Cancer can be detected in a number of ways including the presence of certain signs and symptoms screening tests or medical imaging Cancer therapy is dynamically changing and revision and change in patient management is constant as our knowledge increases Cancer is routinely treated with chemotherapy radiation therapy and surgery Tailored cancer targeted therapy is becoming an emerging objective of today In this book a constructive group of cancer research experts bring the reader their shared vision to give an extensive and realistic view of individual tumors such as breast oral prostate gastric and neuroendocrine tumors New and contemporary terms and concepts in genetics and epigenetics diet anticancer treatments and anticancer drug delivery systems are introduced in this volume This reference highlights present experimental strategies and key findings that enhance our understanding of cancer and of future therapies This eBook is aimed at a broad audience of undergraduates medical students PhDs cancer researchers and also cancer patient families with the goal to conceive a curiosity about the subjects presented that will hopefully lead to further studies The Publishers Weekly ,2002 **THE Journal** ,2002 **Rural Libraries** ,2002

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