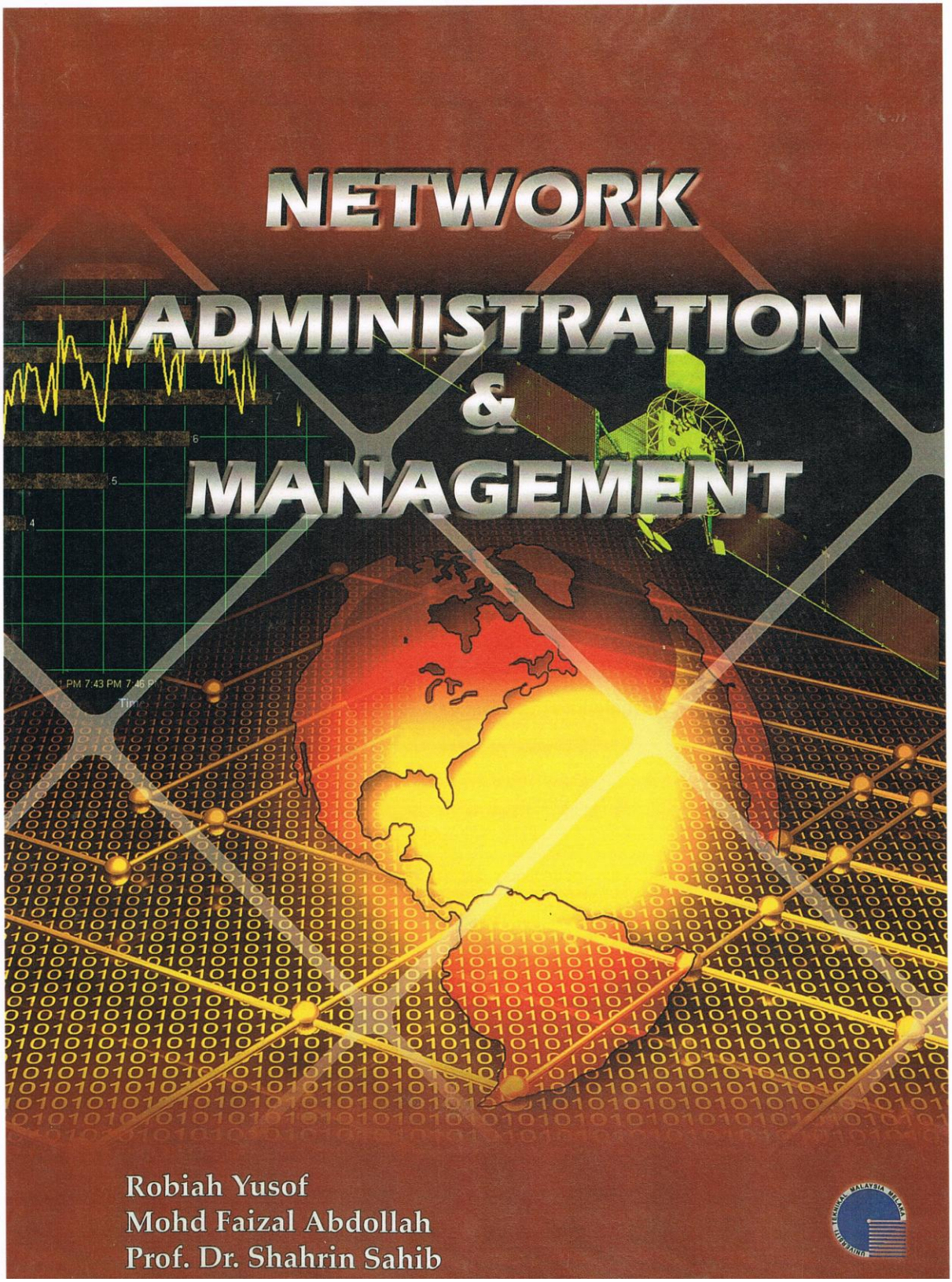

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NETWORK ADMNISTRATION AND MANAGEMENT

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PREFACE

Overview

Network Administration is basically the job done by network administrators to maintain the hardware and software that comprises the network. Network administration commonly includes deployment, configuration, maintenance, monitoring network devices such as switches, routers, firewalls and etc. Network administrators also perform network management functions including providing support services, ensuring that the network is used efficiently and ensuring the prescribed service-quality objectives are met. In general, network management is a service that employs a variety of tools, applications, and devices to assist network administrator in monitoring and maintaining networks.

Approach

The objective of this module is to expose the student to network administration and management environment by using variety tools and network devices. The task will involve the setup configuration of the network devices, workstation and network administration tools in managing the network. These tools will help student in understanding and applying the network administration and management areas and processes. Each lab offers student many opportunities to get hands-on and build new network administration and management tools skills.

Upon completion of this lab module the students should have:

- Substantial skills to use software or tools for administrating and managing network
- Knowledge about configuring various network devices including router, switches, workstation and servers for network administration.
- Skills on administrating and managing network in efficient manner.

Chapter Layout

Each main chapter begins with a list of objectives. These include the important skills to be mastered within the chapter.

Extensive hands-on/step-by-step tasks are included in each chapter and questions to enable the student to understand more on the chapter. They provide the student with a chance to build confidence with the lab exercises. This module contains 11 chapters on hands-on, 1 chapter on Sample of Question (chapter 12) and 1 chapter on Project Task (chapter 13).