Chapter 1 Introduction

1.1 History of Operations Reasearch
- Part of industry engineering
- WW2 extense military use
- Post-ww2 extend to process type industry
- 1960 extend to all type industries
- 1970 extend to social/urban operations
- 1980 integrated with MIS

1.2 Natures of O.R.
- research on operations
  - conduct and coordinate
- search for perfection
  - system-wide view

1.3 Characteristic of O.R.

(1) Focus on managerial decisions
(2) Scientific approach
(3) System approach
(4) Quantative model
(5) Use of computer

1.4 Basic Definition
- O.R. is concerned with scientifically decide how to best design and operation a man-machine system, usually under condition required allocation of limited resource.

1.5 Contributions of O.R.
- structure problem into a mathematical model
- explove a system approach to obtain a solution
- develop an optimal solution

1.6 Limitations
- Time – consuming
- Lack of acceptance
- Difficulty in uncertainty measurement
- Expensive