**Chapter 4: Nondeterminism and kleene’s theorem**

**Reference book: John C Martin**

Definition: NFA, NFA null

Definition: Recursive definition δ\* for NFA,

Recursive definition δ\* for NFA-Null,

Example 4.2 page no 127

Exercise no 4.1,4.2

Theorem 4.1 page no 131

Example 4.3 NFA to FA using subset construction

Example 4.4

Example 4.6,

Exercise 4.16,4.17,4.18,

Example 4.7,4.8 NFA null to NFA and FA

Theorem of Kleene’s part 1

Example 4.9

1. (00+1)\*(10)\* Draw the NFA-null using Kleene’s theorem
2. ({0,1}\*{10}U{00}\*{11}\*)\* Draw the NFA-null using Kleene’s theorem