

PART 1:

Automata:

Finite State Machines (Finite Automata)

Formal Language:

Regular Languages

Non-regular Languages

Grammar:

Regular Expressions

Regular Grammars

Finite State Machines (Finite Automata)

Readings

Chapter 5:

Sections

5.1

5.2

5.3

5.4

Exercises

Chapter 5:

2- f & g

3

4

5

6 - b

7

9 - a

Regular Expressions

Readings

Chapter 6:

Sections

6.1

6.2

6.3

6.4

Exercises

Chapter 6:

1

2 - g

4

5

8

13 - e

Regular Grammars

Readings

Chapter 7:

Sections

7.1

7.2

Exercises

Chapter 7:

1 – c & e

2 - a

5

Closure Properties & Pumping of Regular Languages

Non-regular Languages

Readings

Chapter 8:

Sections

8.1

8.2

8.3

8.4

Exercises

Chapter 8:

1 – a & b & n

21 – a & b & e

Algorithms and Decision Procedures for Regular Languages

Readings

Chapter 9:

Sections

9.1

9.2

Exercises

Chapter 9:

1 - c

HW #1

- **Chapter 5:** Exercise #2-(c), #3, #6-(c) and #9-(c).
- **Chapter 6:** Exercise #2-(f), #5 and #8.
- **Chapter 7:** Exercise #5.
- **Chapter 8:** Exercise #1-(k).
- **Chapter 9:** Exercise #1-(a).