

## **Reading instructions Automation 2022**

### **Chapter 2 Manufacturing and process systems**

Read the chapter to get some perspective and insight in the application of automation.

### **Chapter 3 Dynamical systems**

Sections 3.1 – 3.4

### **Chapter 4 Control concepts in continuous processes**

Whole chapter except sections 4.9 – 4.10

### **Chapter 5 Control concepts in discrete manufacturing**

Sections 5.1 – 5.8

### **Chapter 6 Stochastic modeling of manufacturing systems**

Section 6.1 – 6.5, 6.7, 6.8

### **Chapter 9 Supervising the operation**

Whole chapter

### **Chapter 10 Measurement processing**

Whole chapter

### **Chapter 11 Process monitoring**

Sections 11.1 – 11.4, 11.8

### **Chapter 13 Combinatorial and sequencing control**

Sections 13.1 – 13.8

### **Chapter 14 Production control**

Whole chapter

### **Chapter 15 Real time control of dynamical systems**

Whole chapter

### **Chapter 16 Industrial communication**

Whole chapter

#### **Additional reading**

This extra material is handed out at the lectures. You can also contact the IEA student administration office (Carina Lindström) to get a hardcopy.

“Man-Machine Communication”, Chapter 11 in "Computer Systems for Automation and Control" by Gustaf Olsson and Gianguido Piani, Prentice Hall International, UK, 1992.