

Reading guide RTS (2IMN20) 2017 – 2018

- final -

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Abstract

This note is a reading guide to the 3rd edition of the book of Buttazzo [1] identifying those parts that are to be studied for the examination. Note that in addition to the book, both the *slides* (and accompanying *notes*) in CANVAS and the *articles* of the “Expected reading” on the web [2] have to be studied as well! Finally, you’re strongly encouraged to study earlier exams; see the references to questions of exams in the notes accompanying the slides.

1 Introduction

Roughly speaking, Chapters 1 till 5, and 7 have to be studied, and a section of Chapter 10. Chapters 1 and 2 have to be studied entirely. Below, Chapters 3, 4, 5, 7, and 10 will be discussed in more detail. The slides and exercises to be studied are indicated as well.

2 Discussion by Chapter

2.1 Chapter 3

2.2 Chapter 4

2.3 Chapter 5

To be studied, except for Sections 5.3.1, 5.3.2, 5.3.3, 5.4.1, 5.4.2, 5.4.3, 5.5, 5.6, and 5.7.

2.4 Chapter 7

To be studied, except for

- the implementation considerations of all protocols, and
- multi-unit aspects of SRP (Section 7.9).

2.5 Chapter 10

To be studied: Section 10.5.4.

3 Slides

All slide-sets presented have to be studied, including the accompanying notes.

4 Exercises

All exercises belong to the material for 2IMN20.

5 References

- [1] G.C. Buttazzo, “Hard real-time computing systems, predictable scheduling – algorithms and applications”, Springer, 2011 (3rd edition).
- [2] <http://www.win.tue.nl/~rbril/education/2IMN20>