



Distributed Computing and Systems
Chalmers university of technology

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Distributed Computing and Systems Research Group

DISTRIBUTED SYSTEMS II

CLOSING

What do I need to study?

- Chapters:

- 12 Coordination and Agreement
- 13 Transactions and Concurrency Control
- 14 Distributed Transactions
- 15 Replication

(4th edition of the Coulouris et al. book (11, 12, 13, 14 for the 3rd edition)) of the book

What do I need to study? (cnt.)

- Chapter 3 and 5 of the Master's Thesis. While reading this thesis it is good to check also the following papers:
 - Dijkstra, E. W. (1971, June). Hierarchical ordering of sequential processes. Acta Informatica 1(2): 115-138.
 - Chandy, K.M.; Misra, J. (1984). The Drinking Philosophers Problem. ACM Transactions on Programming Languages and Systems.
 - Nancy A. Lynch. Upper bounds for static resource allocation in a distributed system Journal for Computer and System Sciences, 23:254-278, 1981
 - Manhoi Choy and Ambuj K. Singh. Efficient fault-tolerant algorithms for distributed resource allocation. ACM Transactions on Programming Languages and Systems, 17(3):535-559, May 1995.

How to answer the exam questions?

- Write Pseudocode together with the informal description.
- Write formal statements, when giving proofs, complexity analysis.