DISTRIBUTED SYSTEMS

Peter Kropf – University of Neuchâtel – Fall 2016

GOALS

UNIVERSITÉ DE NEUCHÂTEL

- Obtain basic knowledge on distributed systems

- Course contents:
  - Fundamental theoretical concepts
  - Programming tools
  - Practical projects

CONTENTS

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- Characterization of distributed systems
- System models
- Networking and Internetworking
- Interprocess Communication and Remote Invocation
- Indirect communication
- Time and Global States
- Coordination and Agreement
- Replication
- Distributed Shared Memory
- P2P, Mobile and Ubiquitous Computing

BIBLIOGRAPHY

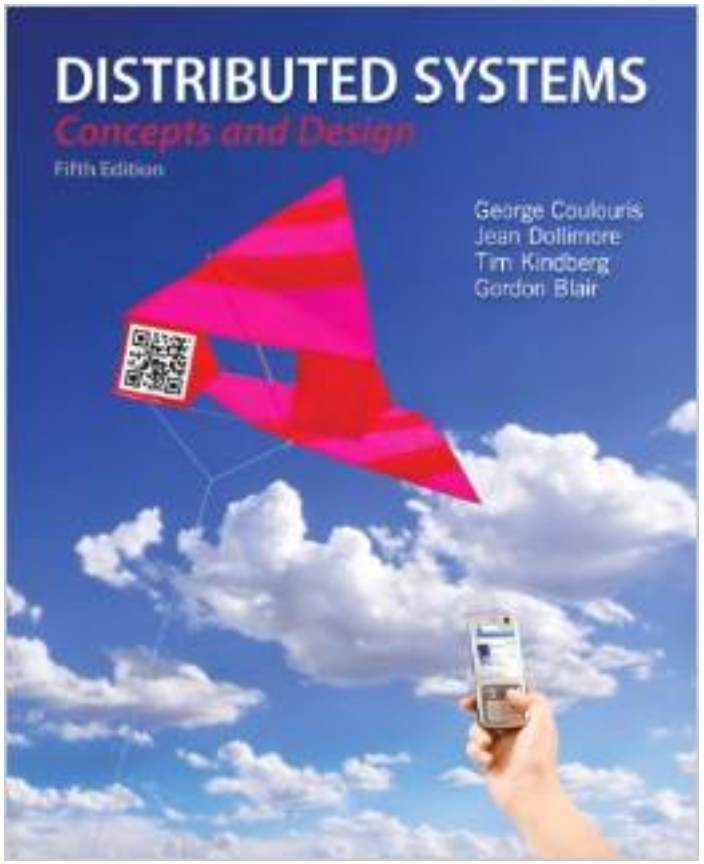
***Distributed Systems Concepts and Design**, 5th ed.*

George Coulouris,
Jean Dollimore,
Tim Kindberg and
Gordon Blair

Addison-Wesley, 2012

ISBN: 978-0132143011

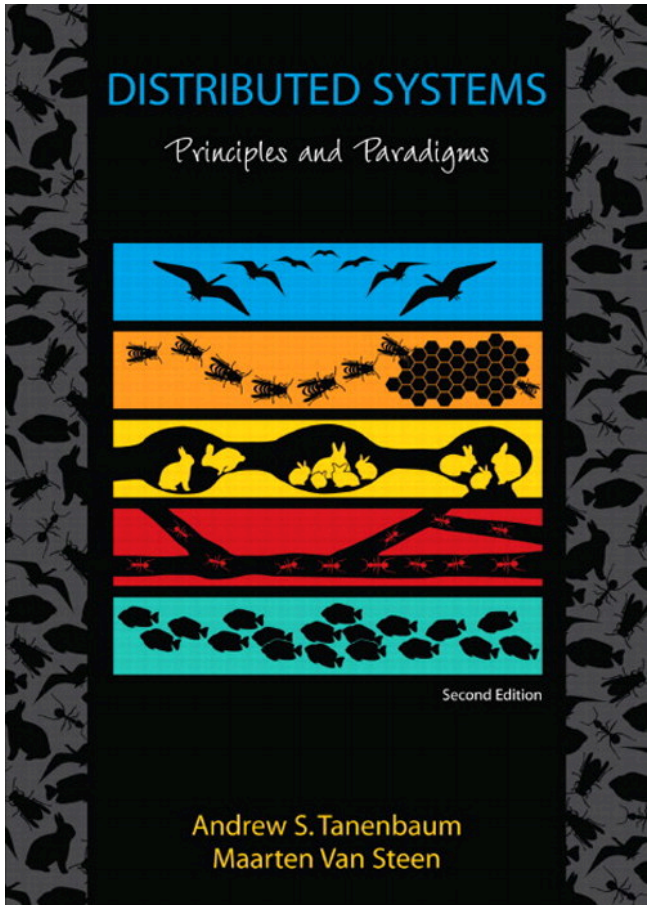
http://www.cdk5.net/



BIBLIOGRAPHIE

Distributed Systems: Principles and Paradigms, 2nd ed.

Andrew S. Tanenbaum,
Maarten Van Steen



Prentice Hall, 2007
ISBN-13: 978-0-13-239227-3

FORMAT & EVALUATION

- 14h -15h45 – Theoretical course
- 16h-17h45 – Theoretical or practical session
  - 3 projects and 6 assignments

- Evaluation (all mandatory)
  - Written exam (60%)
  - Projects (40%)

SCHEDULE

- September 20 27
- October 4 11 18 25
- November 1 8 15 22 29
- December 6 13 20

Projects' deadlines:

1. 8 November
2. 29 November
3. 20 December

CONTACTS

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