Software Engineering Mathematics

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Textbook

- 书名
  - Discrete Mathematics (离散数学) and Its Applications (6th Edition)
- 作者
  - Kenneth H. Rosen (AT&T Lab)
- 出版社
  - McGraw-Hill
- 说明
  - 已被许多著名大学采用，例如：Univ. of California, Berkeley; Univ. of California, Davis, Univ. of California, Santa Cruz; Columbia Univ.; ....

课程内容

- ❑ 课程内容：
  - ■ 以相关传统的课程为基础，结合软件工程专业的特征来选择教学内容,具体：
    1. 数理逻辑
    2. 集合与函数
    3. 关系
    4. 图论
    5. 组合数学
  - ■ 说明
    - ❑ 内容(4)(5)与传统相关课程有本质的区别，内容(4)将讲授与数据结构课程中不同的内容

课程内容

- ❑ Topics covered in this course:
  1. Chapter 1: The Foundations: Logic and Proof (逻辑和证明)
  2. Chapter 2: Basic Structure: Sets, Functions, Sequences, and Sums (集合与函数等)
  3. Selected topics from Chapter 3 and Chpater4
  4. Chapter 8: Relation (关系)
  5. Chapter 5: Counting (计数)
  6. Chapter 7: Advanced Counting Techniques (高等计数原理)
  7. Chapter 9: Graphs (图论)

Instructors and Tutors

- Instructor (主讲教师):
  - Zhu Huibiao
  - Math. Building, Room 205 (East)
- *Tutor (助教):*
  - *Zhu Han*
  - Math. Building, Room 210 (West)

Examinations

❑ Mid-term Examination

- Chapter 1,
- Chapter 2,
- Chapter 8 and the selected topics from Chapter 3 and 4

❑ Final Examination

Homework

❏ Remark

- The exercises are mainly from the textbook.

- Please work hard to finish the exercises.

Website for Downloading

- ftp
  - 219.228.60.119
- 学生的用户名
  - seistu
- 密码
  - seistu123.