Pensum

Python TDT4110

Får informasjon

Pensum

For læringsassistenten

Matlab TDT4105

Pensum

Fellespensum

Alle foilere, øvinger og løsningsforslag er pensum.

Teoribok:


Fourth edition: Hele boken er pensum.

Third edition: Deler av boken er pensum.

Hardware:

- Defining Information Technology
- Principles of Computer Operations
- Digital Representation:
  - Representing Information Digitally
  - Representing Multimedia Digitally
  - Representing Integers (and Representing Real Numbers)

Algorithms

- Network:
  - 1: Introduction and Overview (181 - 195)
  - 2: Internet Trends (197 - 205)
  - 8: Reliability And Channel Coding
    - 8.1 - 8.6 (227 - 231)
    - 8.11 - 8.13 (234 - 240)
    - 8.16 (241)
  - 13: Local Area Networks:
    - Packets, Frames, And Topologies
      - 13.8 - 13.10 (251 - 254)
      - 13.14 (258)
  - 20: Internetworking: Concepts, Architecture, And Protocols (269 - 277)
  - 21: IP - Internet Addressing

Python og Numerikk TDT4127

Pensum

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TDT4105 Matlab

Programmering:

Matlab: A Practical Introduction to Programming and Problem Solving, Fifth Edition, Stormy Attaway

Matlab: A Practical Introduction to Programming and Problem Solving, Third Edition, Stormy Attaway

- Kapittel 1: Introduction to MATLAB
- Kapittel 2: Vectors and Matrices
- Kapittel 3: Introduction to MATLAB Programming
- Kapittel 4: Selection Statements
- Kapittel 5: Loop Statements and Vectorizing Code
- Kapittel 6: MATLAB Programs
- Kapittel 7: String Manipulation
- Kapittel 8: Data Structures: Cell Arrays and Structures
- Kapittel 9: Advanced File Input and Output
  - 9.1 (in Third edition) or 9.3 (Fourth edition)
  - Lower---level file i/o functions
  - Kapittel 10: Advanced Functions
    - Third edition
      - 10.1 Anonymous functions
      - 10.2 Uses of function handles
      - 10.5 Recursive functions
    - Fourth edition
      - 10.3, 10.4 and 10.5.
- Sorting and Searching
  - Third Edition
  - Kapittel 12: Basic Statistics, Sets, Sorting, and Indexing
    - 12.3: Sorting
    - 12.5: Searching
  - Fourth Edition

TDT4110 Python

Programmering:


- Kapittel 1: Introduction to Computers and Programming
- Kapittel 2: Input, Processing, and Output
- Kapittel 3: Decision Structures and Boolean Logic
- Kapittel 4: Repetition Structures
- Kapittel 5: Functions


- Kapittel 1: Introduction to Computers and Programming
- Kapittel 2: Input, Processing, and Output
  - Mangler delkapitlene:
    - 2.9: Named Constants
    - 2.10: Introduction to Turtle Graphics
- Kapittel 3: Decision Structures and Boolean Logic
  - Mangler delkapitlet:
    - 3.7: Turtle Graphics: Determining the State of the Turtle
- Kapittel 4: Repetition Structures
  - Mangler delkapitlet:
    - 4.8: Turtle Graphics: Using Loops to Draw Designs
- Kapittel 5: Functions
• 21.1 - 21.13 (279 - 290)
• 21.20 - 21.23 (295 - 299)
• 25: TCP - Reliable Transport Service
  • 25.1 - 25.6 (321 - 328)
  • 25.17 (339)
• 27: Network Performance (QoS And DiffServ)
  • 27.1 - 27.6 (341 - 346)
  • 27.10 (351)
  • 27.14 (357)
• 29: Network Security (361 - 384)
• 32: The Internet Of Things
  • 32.1 - 32.6 (387 - 391)
  • 32.13 (397)

For "2nd edition" av Starting Out with Python er kapittel 1-10 + kapittel 13 pensum.