

UNIVERSITY OF SOUTHERN CALIFORNIA

COMPUTER ENGINEERING

SCREENING EXAMINATION

EE 454

INTRODUCTION TO SYSTEM-ON-CHIP

SUGGESTED READING

- Jörg Henkel and Nikil Dutt. Dependable embedded systems. Springer Nature, 2021.
- Marilyn Wolf. Computers as components: principles of embedded computing system design. Elsevier, 2012.
- Daniel D. Gajski, Samar Abdi, Andreas Gerstlauer, and Gunar Schirner. Embedded system design: modeling, synthesis and verification. Springer Science & Business Media, 2009.
- Edward Lee, Ptolemaeus, Claudius, ed. *System design, modeling, and simulation: using Ptolemy II*. Vol. 1. Berkeley: Ptolemy. org, 2014. (also available online https://ptolemy.berkeley.edu/books/Systems/PtolemyII_DigitalV1_02.pdf)
- Gabriela Nicolescu and Pieter J. Mosterman. Model-based design for embedded systems. Crc Press, 2018.
- J. L. Hennessy and D. A. Patterson. "Computer Organization and Design: The Hardware/Software Interface, Waltham." (2012).
- Christos H. Papadimitriou and Kenneth Steiglitz. Combinatorial optimization: algorithms and complexity. Courier Corporation, 1998.

- Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, and Clifford Stein. Introduction to algorithms. MIT press, 2022.

Please be aware that these references are for guidance in BASIC knowledge. Ph.D. candidates are screened on the basis of talent, course knowledge, independent reading and experience.

Updated August 2023