

SUGGESTED BOOKS FOR PREPARATION OF
EE PRELIMINARY EXAMINATION
(Revised January 21, 2002)

Computer Engineering

Clements, Microprocessors System Design, 3rd Ed. or later or similar text;
Roth, Fundamentals of Digital Design, or similar text in digital logic design;
Wakerly, Digital Design Principles and Practices or similar text in digital logic.

Computer Science

Aho, Hopcroft & Ullman, Data Structures and Algorithms or similar text;
Horowitz, Fundamentals of Programming Languages or similar text in
languages/data structures;
Patterson and Hennessy, Computer Organization and Design or similar text on
computer architecture.

Signals and Systems

Soliman and Srinath, Continuous and Discrete Signal and Systems;
Dorf & Bishop, Modern Control Systems, 9th Edition, 2001;
Phillips & Harbor, Feedback Control Systems, 4th Edition, Prentice Hall, 2000;
E.W. Kamen and B.S. Heck, Fundamentals of Signals and Systems Using Matlab
Prentice Hall.

Mathematics

Any calculus book;
Kreyszig, Advanced Engineering Mathematics, Pub. Wiley.

Electronics

Streetman, B. G. Solid State Electronic Devices;
Gray and Meyer, Analysis and Design of Analog Integrated Circuits;
Pierret, Semiconductor Device Fundamentals, 1996, Addison-Wesley;
Jaeger, Introduction to Microelectronics Fabrication;
Hodges & Jackson, Analysis and Design of Digital Integrated Circuits,
McGraw-Hill.

Fields, Waves, and Quanta

Cheng, David K. Field and Wave Electromagnetics, 2nd Edition.

General

Stephenson, Power Systems Analysis;
Dewan and Straughen, Power Semiconductor Circuits;
Dewan and Straughen, Electrical Machinery;
Sadiku, Elements of Electromagnetics, Oxford University Press, 1995.