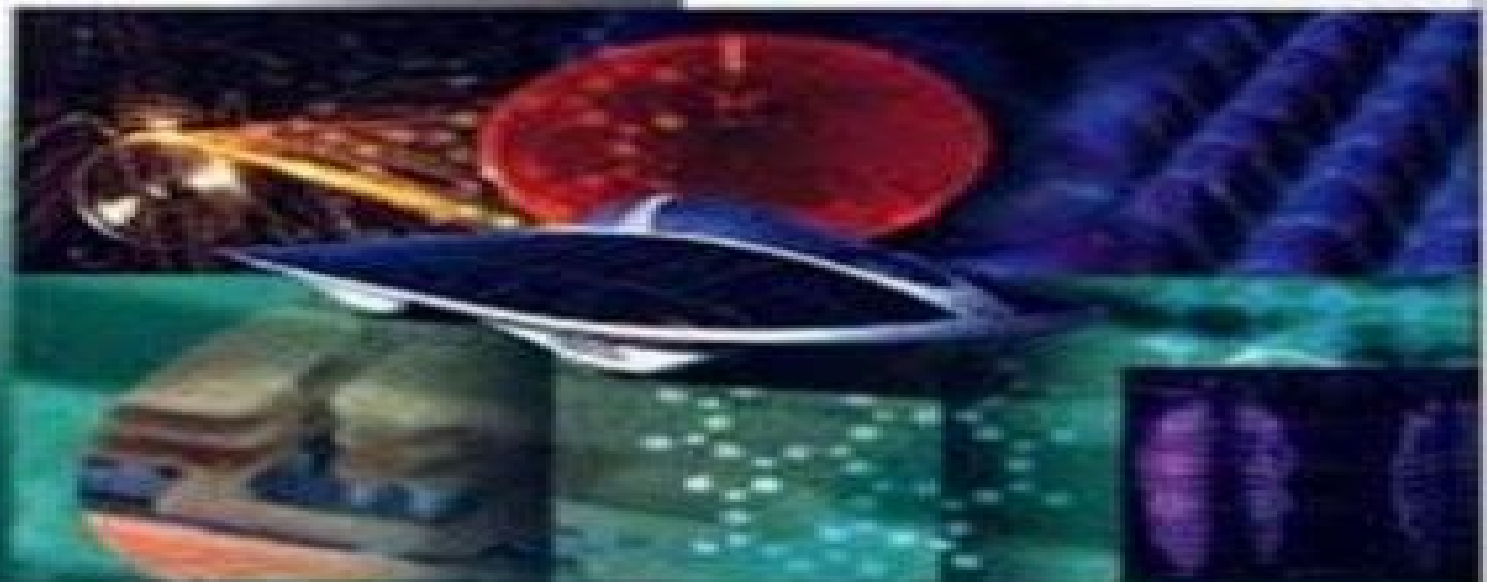


# SOLUTIONS MANUAL

## Principles of Electronic Materials and Devices

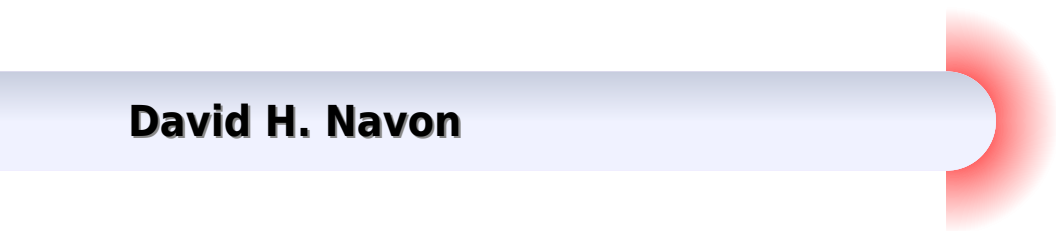
Third Edition



S. O. Kasap

# Principles Of Electronic Materials And Devices Solution Manual 3rd Edition

**David H. Navon**



## **Principles Of Electronic Materials And Devices Solution Manual 3rd Edition:**

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**Principles of Electronic Materials and Devices** Safa O. Kasap, 2001-07 Principles of Electronic Materials and Devices Second Edition is a greatly enhanced version of the highly successful text Principles of Electrical Engineering Materials and Devices It is designed for a first course on electronic materials given in Electrical Engineering Materials Science and Engineering and Physics Departments at the undergraduate level The second edition has numerous revisions additional sections such as Phonons and Optoelectronic Materials and Devices more solved problems and a completely new chapter on Optical Properties of Materials The revisions have improved the rigor without sacrificing the original semiquantitative approach that the students liked For example the thermoelectric effect now includes the Mott Jones index  $\alpha$  which is normally treated at the graduate level but has been introduced here through a semiquantitative discussion to explain the true sign of the Seebeck coefficient in metals one of the most difficult graduate topics in quantum mechanics of metals The problems have also been updated and various difficult figures have been redrafted to enhance the pedagogy The second edition includes the Electronic Materials and Devices CD ROM The CD includes color overhead transparency diagrams that can be printed by instructors and students on any color printer an illustrated dictionary of electronic materials and devices numerous selected topics and solved problems The text with its Selected Topics can also serve as a first course in Materials Science aimed at electrical engineers and engineering physics students It is suitable for both one and two semester courses By focusing only on those topics relevant to materials that make up electronic and optoelectronic devices the book offers students a deeper and more meaningful discussion of this material than is offered in general materials science textbooks The coverage is up to date and the applications are of special relevance to students of electronics materials science and engineering physics The solutions manual for the second edition is available from the publisher the McGraw Hill

website and also from the author s website at <http://ElectronicMaterials.usask.ca>     Electronic Materials and devices David H. Navon,1975     **Books in Print** ,1994     *The Cumulative Book Index* ,1996 A world list of books in the English language  
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