Direct Transistor Substitution Handbook

Includes entries for maps and atlases.

Oscillators have traditionally been described in books for specialist needs and as such have suffered from being inaccessible to the practitioner. This book takes a practical approach and provides much-needed insights into the design of oscillators, the servicing of systems heavily dependent upon them and the tailoring of practical oscillators to specific demands. To this end maths and formulae are kept to a minimum and only used where appropriate to an understanding of the theory. Once grasped, the theory of the general oscillator is easily put into practical use in actual oscillators. The final two chapters present a collection of oscillators from which the practising engineer or the hobbyist can obtain useful guidance for many kinds of projects. Irving Gottlieb is a leading author of many books for practising engineers, technicians and students of electronic and electrical engineering. First Newnes title by this best-selling author Clarity and crispness in an often obscure field

A world list of books in the English language.

Industrial electronics systems govern so many different functions that vary in complexity-from the operation of relatively simple applications, such as electric motors, to that of more complicated machines and systems, including robots and entire fabrication processes. The Industrial Electronics Handbook, Second Edition combines traditional and new

Includes, beginning Sept. 15, 1954 (and on the 15th of

each month, Sept.-May) a special section: School library journal, ISSN 0000-0035, (called Junior libraries, 1954-May 1961). Also issued separately.

A Handbook of Circuit Mathematics for Technical Engineers is designed to provide students and practicing engineers a reference regarding the background and technique for solving most problems in circuit analysis. Using hundreds of equations and examples, the book covers topics ranging from the analysis of simple resistive and reactive networks to complex filters in both the analog and digital domain. The book also presents the characteristics and analysis of input forcing functions from batteries through sine, square, pulse and impulse waves; diodes and transistors, transformers, and operational amplifiers; and the transient response methods of Laplace, Fourier, and the Z-Transform. The appropriate input functions and networks, both passive and active, are illustrated in their simple, complex, and exponential forms so that readers can understand and use each form on problems encountered in day-to-day circuit analysis.

The object of this handbook is to assemble a set of design methods for crystal oscillators in the frequency range of 1 KC to 200 MC with the aim of facilitating design, eliminating crystal unit misapplications, and reducing design costs. The handbook is not directed at the design of ultra-stable crystal oscillators, but rather at the non-temperature controlled, medium frequency stability oscillator commonly in use in many types of communications equipment. The handbook contains discussions of: (1) The electrical characteristics of crystal

units, condition of usage, and methods of measurement. (2) Characteristics of tube and transistor amplifiers. (3) Characteristics of impedance transforming networks. (4) Detailed design information on series resonance and anti-resonance oscillators. (5) Design examples together with experimental evaluation data covering most of the 1 KC to 200 MC range. (Author).

Achieve accurate and reliable parameter extraction using this complete survey of state-of-the-art techniques and methods. A team of experts from industry and academia provides you with insights into a range of key topics, including parasitics, intrinsic extraction, statistics, extraction uncertainty, nonlinear and DC parameters, self-heating and traps, noise, and package effects. Learn how similar approaches to parameter extraction can be applied to different technologies. A variety of real-world industrial examples and measurement results show you how the theories and methods presented can be used in practice. Whether you use transistor models for evaluation of device processing and you need to understand the methods behind the models you use, or you want to develop models for existing and new device types, this is your complete guide to parameter extraction.