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Frequency Synthesizers: Theory and Design, Third Edition is the newest edition of Vadim Manassewitsch's definitive treatment of the subject. Updated to include the latest achievements in the performance of crystal-controlled oscillators, the design theory of fast-switching-time synthesizers, and an example of their practical applications, the book continues to be a complete guide for everyone who works with synthesizers.

Intended to formulate basic design principles and to demonstrate design procedures meeting several stringent requirements simultaneously, its emphasis is on high-speed synthesis and its new applications in radar, spread spectrum communications, automatic test equipment, and nuclear magnetic resources. Manassewitsch describes numerous approaches to ultra-stable signal sources generating spectrally pure signals of high accuracy, and shows how various building blocks such as mixers, oscillators, and frequency multipliers and dividers are used in frequency synthesis. To meet the needs of engineers in this rapidly growing field, Manassewitsch has added several novel frequency synthesis techniques, developed the principles of high-speed synthesis, and described new synthesizers using important design approaches.

A summary of the most recent developments in frequency generation and control, the book is firmly based on the realities of current design practices in the United States as well as abroad. With an intermodulation products chart among its figures, a computer program that calculates the frequencies of mixer intermodulation products among its appendices, and a bibliography of more than 190 references, Frequency Synthesizers: Theory and Design continues to be an invaluable aid for engineers, managers, instructors, and students.