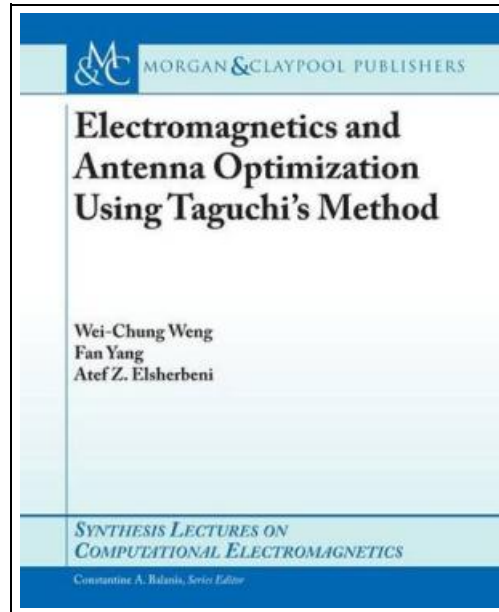


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Morgan Claypool Publishers, United States, 2007. Paperback. Condition: New. Language: English . Brand New Book. This book presents a new global optimization technique using Taguchi s method and its applications in electromagnetics and antenna engineering. Compared with traditional optimization techniques, Taguchi s optimization method is easy to implement and very efficient in reaching optimum solutions. Taguchi s optimization method is developed based on the orthogonal array (OA) concept, which offers a systematic and efficient way to select design parameters. The book illustrates the basic implementation procedure of Taguchi s optimization method and discusses various advanced techniques for performance improvement. In addition, the integration of Taguchi s optimization method with commercial electromagnetics software is introduced in the book. The proposed optimization method is used in various linear antenna arrays, microstrip filters, and ultra-wideband antenna designs. Successful examples include linear antenna array with a null controlled pattern, linear antenna array with a sector beam, linear antenna array with reduced side lobe levels, microstrip band stop filter, microstrip band pass filter, coplanar waveguide band stop filter, coplanar ultra-wide band antenna, and ultra-wide band antenna with band notch feature. Satisfactory results obtained from the design process demonstrate the validity and efficiency of the proposed Taguchi s optimization method.

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