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Summary: This course provides a comprehensive description of radar systems analyses and design. A design case study is introduced and as the material coverage progresses throughout the course, and new theory is presented, requirements for this design case study are changed and / or updated, and the design level of complexity is also increased. This design process is supported with a comprehensive set of MATLAB-7 code developed for this purpose.

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Vincent Pellissier, MathWorks. In this webinar we illustrate techniques for designing and analyzing radar systems. You'll see

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how you can perform radar system design and analysis tasks such as waveform design, target detection, beamforming, and space-time adaptive processing. This webinar is geared towards scientists, engineers, and students who are working in the applications that employ radar or phased array technologies.

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The purpose of this book is to provide an intensive exposition of the techniques currently being used for radar system design, analysis, and evaluation. The philosophy is to progress from basic engineering and mathematical fundamentals through the development of practical techniques for making necessary engineering decisions.

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Developed from the author's graduate-level courses, the first edition of this book filled the need for a comprehensive, self-contained, and hands-on treatment of radar systems analysis and design. It quickly became a bestseller and was widely adopted by many professors. The second edition built on this successful format by rearranging and updating

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