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The original campus of the University of Michigan was nearly a perfect square about a half-mile along a side. A street-sized walk, appropriately called the Diag, runs diagonally across this square, connecting its southeast and northwest corners. In 1904 a new engineering building was either started or finished (I do not remember which) to house classrooms. When another engineering building was built on the expanded campus across the street from it many years later, the old building came to be known as West Engine, to distinguish it from the new East Engine. Old West Engine is (or maybe by now, was) a four-story, L-shaped structure that stood at the southeast corner of the original campus. It was built with an arch in it to straddle the Diag at the apex of the L. You walked over the Engineering Arch to get from one leg of the L to the other if you were inside the building, and you walked under it when you entered the campus from the southeast corner. Affixed to the masonry wall of the arch was a plaque I often noted in passing. It bore a quote attributed to Horace Greeley (1811-1872), who I did not know at the time was the founder, editor, and publisher of the New York Tribune. It said, simply, Young man, when theory and practice differ, use your horse sense. The suggestion seems worthy of an exclamation point instead of a period, but I do not remember if it had one.

The leading text and reference on radar cross section (RCS) theory and applications, this work presents a comparison of two radar signal strengths. One is the strength of the radar beam sweeping over a target, the other is the strength of the reflected echo sensed by the receiver. This book shows how the RCS "gauge" can be predicted for theoretical objects.

The report is a supplement to a two-volume handbook designed to present the state-of-the-art in radar cross section determination, summarize the available analytical techniques for estimating radar cross sections, and present experimental data typical of the types of radar targets encountered.

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This ground-breaking resource offers you a detailed treatment of EDGE and its critical role in the development of the mobile Internet. The book explains how this global radio based high-speed mobile data standard can be introduced into GSM/GPRS networks, improving data transmission speeds to support multimedia services. It enables you to become thoroughly knowledgeable of EDGE specifications and covers concepts pertaining to several domains, including RF, signal processing, digital communications and communication networks.

This new handbook on radar signal analysis adopts a deliberate and systematic approach. It uses a clear and consistent level of delivery while maintaining strong and easy-to-follow mathematical details. The emphasis of this book is on radar signal types and their relevant signal processing and not on radar systems hardware or components. This handbook serves as a valuable reference to a wide range of audience. More specifically, college-level students, practicing radar engineers, as well as casual readers of the subject are the intended target audience of the first few chapters of this book. As the book chapters progress, these grow in complexity and specificity. Accordingly, later chapters are intended for practicing engineers, graduate college students, and advanced readers. Finally, the last few chapters contain several special topics on radar systems that are both educational and scientifically entertaining to all readers. The presentation of topics in this handbook takes the reader on a scientific journey whose major landmarks comprise the different radar subsystems and components. In this context, the chapters follow the radar signal along this journey from its birth to the end of its life. Along the way, the different relevant radar subsystems are analyzed and discussed in great detail. The chapter contributors of this new handbook comprise experienced academia members and practicing radar engineers. Their combined years of academic and real-world experiences are in excess of 175. Together, they bring a unique, easy-to-follow mix of mathematical and practical presentations of the topics discussed in this book. See the "Chapter Contributors" section to learn more about these individuals.

This highly-anticipated second edition of an Artech House classic covers several key radar analysis areas: the radar range equation, detection theory, ambiguity functions, waveforms, antennas, active arrays, receivers and signal processors, CFAR and chaff analysis. Readers will be able to predict the detection performance of a radar system using the radar range equation, its various parameters, matched filter theory, and Swerling target models. The performance of various signal processors, single pulse, pulsed Doppler, LFM, NLFM, and BPSK, are discussed, taking into account factors including MTI processing, integration gain, weighting loss and straddling loss. The details of radar analysis are covered from a mathematical perspective, with in-depth breakdowns of radar performance in the presence of clutter. Readers will be able to determine the noise temperature of a multi-channel receiver as it is used in active arrays. With the addition of three new chapters on moving target detectors, inverse synthetic aperture radar (ISAR) and constant false alarm rate (CFAR) and new MATLAB codes, this expanded second edition will appeal to the novice as well as the experienced practitioner.