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The BGT24LTR11, the smallest 24 GHz MMIC in the market, is a low power radar transceiver that combines one transmit and one receive channel. This chip is also featured in the DEMO SENSE2GOL PULSE for low-power motion sensing and in the DEMO DISTANCE2GOL for low-power distance measurements.

24GHz Radar - Infineon Technologies

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The 24 GHz radar sensor is a kind of sensor. It realizes high-precision radar ranging function by using Doppler radar technology and FMCW (frequency-modulated continuous wave) technology, and has wide applications in smart cities, intelligent transportation, and industry.

24GHz millimeter wave radar sensor module - Radar - Jotrin ...

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24 Ghz Radar Sensor Empire is the largest and highest integrated 24GHz radar transceiver family currently on the market, saving ~30 percent board space compared to discrete line ups. Infineon provides a total of four 24GHz industrial radar chips, providing a range of different transmitter and 24 Ghz Radar Sensor Empire Xpu - h2opalermo.it The BGT24LTR11, the smallest 24 GHz MMIC in the market ...

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This example shows how to model a 77 GHz 2x4 antenna array for Frequency-Modulated Continuous-Wave (FMCW) radar applications. The presence of antennas and antenna arrays in and around vehicles has become a commonplace with the introduction of wireless collision detection, collision avoidance, and lane departure warning systems. The two frequency bands considered for such systems are

centered ...

Patch Antenna Array for FMCW Radar - MATLAB & Simulink

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Here's a practical, non-theoretical introduction to the principles, applications and benefits of multi-sensor technology used in smart weapon development, surveillance systems, and an increasing variety of non-military applications. This book provides a broad overview of MMW (millimeter-wave) and IR (infrared) sensor constraints, design principles, system alternatives and targeting applications, and is unique in its coverage of integrated MMW and IR multisensor design.

An introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human consumption. The vast majority of computers in use, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station. They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering concepts underlying embedded systems as a technology and as a subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, several new exercises, and other improvements. The book can be used as a textbook at the advanced undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer scientists. Readers should have some familiarity with machine structures, computer programming, basic discrete mathematics and algorithms, and signals and systems.

In today's world, the range of technologies with the potential to threaten the security of U.S. military forces is extremely broad. These include developments in explosive materials, sensors, control systems, robotics, satellite systems, and computing power, to name just a few. Such technologies have not only enhanced

the capabilities of U.S. military forces, but also offer enhanced offensive capabilities to potential adversaries - either directly through the development of more sophisticated weapons, or more indirectly through opportunities for interrupting the function of defensive U.S. military systems. Passive and active electro-optical (EO) sensing technologies are prime examples. Laser Radar considers the potential of active EO technologies to create surprise; i.e., systems that use a source of visible or infrared light to interrogate a target in combination with sensitive detectors and processors to analyze the returned light. The addition of an interrogating light source to the system adds rich new phenomenologies that enable new capabilities to be explored. This report evaluates the fundamental, physical limits to active EO sensor technologies with potential military utility; identifies key technologies that may help overcome the impediments within a 5-10 year timeframe; considers the pros and cons of implementing each existing or emerging technology; and evaluates the potential uses of active EO sensing technologies, including 3D mapping and multi-discriminate laser radar technologies.

A comprehensive introduction to the hardware, parameters, and architectures of RF/microwave wireless systems As the basis for some of the hottest technologies of the new millennium, radio frequency (RF) and microwave wireless systems rapidly propel us toward a future in which the transmission of voice, video, and data communications will be possible anywhere in the world through the use of simple, handheld devices. This book provides scientists and engineers with clear, thorough, up-to-date explanations of all aspects of RF and microwave wireless systems, including general hardware components, system parameters, and architectures. Renowned authority Kai Chang covers both communication and radar/sensor systems and extends the discussion to other intriguing topics, from global positioning systems (GPS) to smart highways and smart automobiles. With an emphasis on basic operating principles, Dr. Chang reviews waves and transmission lines, examines modulation and demodulation and multiple-access techniques, and helps bridge the gap between RF/microwave engineering and communication system design. Ample practical examples of components and system configurations and nearly 300 illustrations and photographs complete this timely and indispensable resource.

A graduate-level 2004 textbook describing the use of satellites to study oceanic physical and biological properties.

Taking a detailed, non-mathematical approach to the principles on which remote sensing is based, this book progresses from the physical principles to the application of remote sensing.

Here is a landmark radar reference that encompasses 25 years of critical radar recognition advances, and allows you fingertip access to information that has previously been unknown outside of Russia.

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