

The Invention That Changed The World How A Small Group Of Radar Pioneers Won The Second World War And Launched A Technological Revolution

The Invention That Changed the World Signal Processing for Passive Bistatic Radar Handbook of Surveillance Technologies Understanding Surveillance Technologies Technical Innovation in American History Encyclopedia of Optical and Photonic Engineering (Print) - Five Volume Set Historical Dictionary of World War II Secret Weapons and World War II Aerospace Power Journal The Log Technical History of the Beginnings of Radar Guanxi Current Contents Air Force Magazine The Prentice Hall Reader Bitter Ocean American Scientist Historical Studies in the Physical and Biological Sciences Smart Companies, Smart Tools Major Problems in American Business History Robert Buder Mateusz Malanowski J.K. Petersen J.K. Petersen Rosanne Welch Craig Hoffman Anne Sharp Wells Walter E. Grunden Séan S. Swords Robert Buder Institute for Scientific Information (Philadelphia) George Miller David Fairbank White Thomas M. Koulopoulos Regina Lee Blaszczyk

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Robert Buder *Mateusz Malanowski* *J.K. Petersen* *J.K. Petersen* *Rosanne Welch* *Craig Hoffman* *Anne Sharp* *Wells* *Walter E. Grunden* *Séan S. Swords* *Robert Buder* *Institute for Scientific Information (Philadelphia)* *George Miller* *David Fairbank* *White* *Thomas M. Koulopoulos* *Regina Lee Blaszczyk*

from simon schuster the invention that changed the world explores how a small group of radar pioneers won the second world war and launched a technical revolution the technology that was created to win world war ii radar has revolutionized the modern world this is the fascinating story of the inventors and their inventions

this cutting edge resource introduces the basic concepts of passive bistatic radar such as bistatic geometry bistatic radar equation and analysis of different illuminating signals these techniques although known for almost a century have not been developed intensively for decades mainly due to technical limitations but today the passive radar concept can be realized in practice and is of great interest for military and civilian users this book provides insight into understanding the potential and limitations of passive radar systems as well as the differences between signal processing in active and passive radar each of the signal processing stages typically applied in passive radar is described including digital beamforming clutter removal target detection localization and tracking these concepts are illustrated with both simulated and measured data along with examples of passive radar systems correlation processing which is crucial for passive radar operation is presented as well as practical approaches for calculating the cross ambiguity function the problems of range and velocity cell migration are also introduced the book analyzes and compares different antenna array geometries to show readers the appropriate solution for a particular scenario of passive radar cartesian tracking is also presented based on the extended kalman filter parallel and sequential updating approaches are introduced and

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compared these concepts are illustrated with both simulated and measured data along with examples of passive radar systems making this book useful for both novice and advanced practitioners

from officially sanctioned high tech operations to budget spy cameras and cell phone video this updated and expanded edition of a bestselling handbook reflects the rapid and significant growth of the surveillance industry the handbook of surveillance technologies third edition is the only comprehensive work to chronicle the background and curre

from electronic wire taps to baby monitors and long distance video and listening devices startling changes occur everyday in how we gather interpret and transmit information an extraordinary range of powerful new technologies has come into existence to meet the requirements of this expanding field your search for a comprehensive resourc

from the invention of eyeglasses to the internet this three volume set examines the pivotal effects of inventions on society providing a fascinating history of technology and innovations in the united states from the earliest european colonization to the present technical innovation in american history surveys the history of technology documenting the chronological and thematic connections between specific inventions technological systems individuals and events that have contributed to the history of science and technology in the united states covering eras from colonial times to the present day in three chronological volumes the entries include innovations in fields such as architecture civil engineering transportation energy mining and oil industries chemical industries electronics computer and information technology communications television radio and print agriculture and food technology and military technology the a z entries address key individuals events organizations and legislation related to themes such as industry consumer and medical technology military technology computer

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technology and space science among others enabling readers to understand how specific inventions technological systems individuals and events influenced the history cultural development and even self identity of the united states and its people the information also spotlights how american culture the u s government and american society have specifically influenced technological development

the first edition of the encyclopedia of optical and photonic engineering provided a valuable reference concerning devices or systems that generate transmit measure or detect light and to a lesser degree the basic interaction of light and matter this second edition not only reflects the changes in optical and photonic engineering that have occurred since the first edition was published but also boasts a wealth of new material expanding the encyclopedia s length by 25 percent contains extensive updates with significant revisions made throughout the text features contributions from engineers and scientists leading the fields of optics and photonics today with the addition of a second editor the encyclopedia of optical and photonic engineering second edition offers a balanced and up to date look at the fundamentals of a diverse portfolio of technologies and discoveries in areas ranging from x ray optics to photon entanglement and beyond this edition s release corresponds nicely with the united nations general assembly s declaration of 2015 as the international year of light working in tandem to raise awareness about light s important role in the modern world also available online this taylor francis encyclopedia is also available through online subscription offering a variety of extra benefits for researchers students and librarians including citation tracking and alerts active reference linking saved searches and marked lists html and pdf format options contact taylor and francis for more information or to inquire about subscription options and print online combination packages us tel 1 888 318 2367 e mail e reference taylorandfrancis com international tel 44 0 20 7017 6062 e mail online sales tandf co uk

this dictionary covers the complex and costly conflict that began when germany ruled

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by adolf hitler and the nazi party invaded neighboring poland on 1 september 1939 and concluded when germany surrendered on 7 9 may 1945 leaving much of the european continent in ruins and its population devastated the war against germany italy and the other european axis members was fought primarily in europe the mediterranean the middle east east and north africa and the atlantic ocean the axis powers were defeated by the allies led by the grand alliance of great britain the united states and the union of soviet socialist republics the historical dictionary of world war ii the war against germany and italy relates the history of this war through a chronology an introductory essay maps and photos and an extensive bibliography the dictionary section has more than 300 cross referenced entries on the countries and geographical areas involved in the war as well as the nations remaining neutral wartime alliances and conferences significant civilian and military leaders and major ground naval and air operations this book is an excellent access point for students researchers and anyone wanting to know more about world war ii

grunden s analysis of this fundamental flaw in the japanese war effort seamlessly weaves together science technology and military history to provide an entirely unique look at a crucial but understudied aspect of world war ii comparing the science and weapons programs of all the major combatants he demonstrates that japan s failure was nearly inevitable given its paucity of strategic resources an inadequate industrial base the absence of effective centralized management to coordinate research military hostility toward civilian scientists and bitter interservice rivalries in the end japan could not overcome these obstacles and thus failed to make the transition to the kind of big science it needed to ward off its enemies and dominate the far east book jacket

the book sets out to explain the basic principles of radar and where applicable historical aspects of the evolution of these principles are dealt with the study while underlining the significance of the cavity magnetron purposely restricts itself to the pre cavity magnetron era of radar

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half a world away from the calm beauty of puget sound there s a lab where bill gates s software dreams come trueaso begins guanxi the compelling behind the scenes tale of the allure of china today and a unique partnership between the world s most famous capitalist and the world s largest communist nation that showcases what it takes to compete in the age of global innovation guanxi gwan shee the chinese term for mutually beneficial relationships essential to success in the middle kingdom tells the story of the juggernaut research lab that underpins microsoft s relationship building in china unfurled through a gripping narrative that moves between beijing and microsoft headquarters in redmond wa it follows the lab s emergence as a mecca for chinese computer science talent a place where 10 000 resumes arrive in a month written exams are farmed out to 11 cities to screen applicants and interns sleep on cots next to their cubicles so far the company has invested well over 100 million and hired more than 400 of china s best and brightest to turn the outpost into an important window on the future of computing and a training ground to uplift the state of chinese computer science creating dramatic payoffs for both microsoft and its host country that are helping the company overcome many of the challenges of china guanxi traces the arc of the lab s stunning success from a memo by erstwhile microsoft visionary nathan myhrvold to its early days under maverick speech recognition guru kai fu lee since plucked away by google for some 10 million to its more recent tutelage under former child prodigies ya qin zhang and harry shum the two china born stars who both attended college in their native country at the age of 12 have orchestrated the beijing lab s recent emergence as an epicenter of microsoft s intensifying battles against google in the search wars nokia in the wireless arena and sony in graphics and entertainment as pundits rail about the china threat to us competitiveness and offer often hackneyed arguments against outsourcing guanxi explores the true ramifications of china s high tech buildup and how it can be turned to competitive advantage in part by insourcing the untapped talent in the country s top universities sprinkled with telling observations compelling characters and lively anecdotes about the brilliant successes

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and sometimes painful stumbles of the world's most powerful software company
guanxi is essential reading for business leaders entrepreneurs and technologists around
the globe

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