

Computer/Radio Subsystem

Computer
Soldier radio w/ (†)packet relay
Squad radio
Global positioning system (GPS)
w/(†) integrated navigation
Hand-held flat panel display
Video capture
Compatible with combat ID component
† Color hand-held flat panel display
† System voice control
† Interface to in-stride mine avoidance

Protective Clothing and Individual Equipment Subsystem

Advanced load carrying capability
Modular body armor
Chemical/biological garment/glove/boot
† Combat ID
† Personal status monitor
† Lightweight chemical agent detector

Software Subsystem

Software
Government furnished equipment (GFE) software



Integrated Helmet Assembly Subsystem (IHAS)

Lightweight helmet with suspension
Helmet-mounted display (improved display)
Image intensifier with integrated flat panel display
Laser detectors
Chemical/biological mask
Ballistic/laser eye protection
† Head orientation sensor
† Integrated, improved IHAS

Weapon Subsystem

Laser rangefinder
Digital compass
Wiring harness/(†)wireless weapon interface
Video camera
Modular weapon system
Thermal weapon sight
Close combat optic
Infrared laser aiming light
† Integrated sight
† Objective individual combat weapon

† = Candidates for insertion

FIGURE ES-1 Land Warrior subsystems. Source: Doney, 1996.

Energy Efficient Technologies For The Dismounted Soldier

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Energy Efficient Technologies For The Dismounted Soldier:

Energy-Efficient Technologies for the Dismounted Soldier National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee on Electric Power for the Dismounted Soldier, 1997-12-30 This book documents electric power requirements for the dismounted soldier on future Army battlefields describes advanced energy concepts and provides an integrated assessment of technologies likely to affect limitations and needs in the future It surveys technologies associated with both supply and demand including energy sources and systems low power electronics and design communications computers displays and sensors and networks protocols and operations Advanced concepts discussed are predicated on continued development by the Army of soldier systems similar to the Land Warrior system on which the committee bases its projections on energy use Finally the volume proposes twenty research objectives to achieve energy goals in the 2025 time frame Energy-Efficient Technologies for the Dismounted Soldier

National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee on Electric Power for the Dismounted Soldier, 1998-01-30 This book documents electric power requirements for the dismounted soldier on future Army battlefields describes advanced energy concepts and provides an integrated assessment of technologies likely to affect limitations and needs in the future It surveys technologies associated with both supply and demand including energy sources and systems low power electronics and design communications computers displays and sensors and networks protocols and operations Advanced concepts discussed are predicated on continued development by the Army of soldier systems similar to the Land Warrior system on which the committee bases its projections on energy use Finally the volume proposes twenty research objectives to achieve energy goals in the 2025 time frame **Toward a Universal Radio Frequency System for Special Operations Forces** National Research

Council, Division on Engineering and Physical Sciences, Standing Committee on Research, Development, and Acquisition Options for U.S. Special Operations Command, Committee on Universal Radio Frequency System for Special Operations Forces, 2009-10-28 The U S Special Operations Command SOCOM was formed in response to the failed rescue attempt in 1980 of American hostages held by Iran Among its key responsibilities SOCOM plans and synchronizes operations against terrorist networks Special operations forces SOF often operate alone in austere environments with only the items they can carry which makes equipment size weight and power needs especially important Specialized radios and supporting equipment must be carried by the teams for their radio frequency RF operations As warfighting demands on SOCOM have intensified SOCOM s needs for significantly improved radio frequency RF systems have increased Toward a Universal Radio Frequency System for Special Operations Forces examines the current state of the art for both handheld and manpackable platform mounted RF systems and determines which frequencies could be provided by handheld systems The book also explores whether or not a system that fulfills SOF s unique requirements could be deployed in a reasonable time period

Several recommendations are included to address these and other issues

Meeting the Energy Needs of Future Warriors National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Soldier Power/Energy Systems, 2004-10-01 The central characteristic of the evolution of the combat soldier in recent years is an increasingly sophisticated array of sensing communications and related electronics for use in battlefield situations The most critical factor for maintaining this evolution will be the development of power supply systems capable of operating those electronics effectively for missions up to 72 hours long To address the challenge it is important that new approaches be sought on how to integrate and power these electronics To assist in addressing this problem the Army requested the National Research Council to review the state of the art and to recommend technologies that will support the rapid development of effective power systems for the future warrior This report presents the results of that review It provides an assessment of various technology options for different power level requirements power system design and soldier energy sinks The report also describes future design concepts focusing on low power systems Recommendations for technology development and system design are presented

Reducing the Logistics Burden for the Army After Next National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee to Perform a Technology Assessment Focused on Logistics Support Requirements for Future Army Combat Systems, 1999-04-22 This study assesses the potential of new technology to reduce logistics support requirements for future Army combat systems It describes and recommends areas of research and technology development in which the Army should invest now to field systems that will reduce logistics burdens and provide desired capabilities for an Army After Next AAN battle force in 2025

Making the Soldier Decisive on Future Battlefields National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Making the Soldier Decisive on Future Battlefields, 2013-05-10 The U S military does not believe its soldiers sailors airmen and marines should be engaged in combat with adversaries on a level playing field Our combat individuals enter engagements to win To that end the United States has used its technical prowess and industrial capability to develop decisive weapons that overmatch those of potential enemies In its current engagement what has been identified as an era of persistent conflict the nation s most important weapon is the dismounted soldier operating in small units Today s soldier must be prepared to contend with both regular and irregular adversaries Results in Iraq and Afghanistan show that while the U S soldier is a formidable fighter the contemporary suite of equipment and support does not afford the same high degree of overmatch capability exhibited by large weapons platforms yet it is the soldier who ultimately will play the decisive role in restoring stability Making the Soldier Decisive on Future Battlefields establishes the technical requirements for overmatch capability for dismounted soldiers operating individually or in small units It prescribes technological and organizational capabilities needed to make the dismounted soldier a decisive weapon in a changing uncertain and complex future environment and

provides the Army with 15 recommendations on how to focus its efforts to enable the soldier and tactical small unit TSU to achieve overmatch

Thermophotovoltaics Thomas Bauer, 2011-06-17 Thermophotovoltaics is the science and technology associated with the direct generation of electricity from high temperature heat Potential applications include combined heat and power portable and auxiliary power radioisotope space power industrial waste heat recovery and concentrated solar power This book aims at serving as an introduction to the underlying theory overview of present day components and system arrangements and update of the latest developments in the field The emphasis is placed on the understanding of the critical aspects of efficient thermophotovoltaic system design The aim is to assist researchers in the field

Materials Research to Meet 21st-Century Defense Needs National Research Council, Division on Engineering and Physical Sciences, National Materials Advisory Board, Committee on Materials Research for Defense After Next, 2003-03-25 In order to achieve the revolutionary new defense capabilities offered by materials science and engineering innovative management to reduce the risks associated with translating research results will be needed along with the R D While payoff is expected to be high from the promising areas of materials research many of the benefits are likely to be evolutionary Nevertheless failure to invest in more speculative areas of research could lead to undesired technological surprises Basic research in physics chemistry biology and materials science will provide the seeds for potentially revolutionary technologies later in the 21st century

Advanced Ultra Low-Power Semiconductor Devices Shubham Tayal, Abhishek Kumar Upadhyay, Shiromani Balmukund Rahi, Young Suh Song, 2023-10-30 ADVANCED ULTRA LOW POWER SEMICONDUCTOR DEVICES Written and edited by a team of experts in the field this important new volume broadly covers the design and applications of metal oxide semiconductor field effect transistors This outstanding new volume offers a comprehensive overview of cutting edge semiconductor components tailored for ultra low power applications These components pivotal to the foundation of electronic devices play a central role in shaping the landscape of electronics With a focus on emerging low power electronic devices and their application across domains like wireless communication biosensing and circuits this book presents an invaluable resource for understanding this dynamic field Bringing together experts and researchers from various facets of the VLSI domain the book addresses the challenges posed by advanced low power devices This collaborative effort aims to propel engineering innovations and refine the practical implementation of these technologies Specific chapters delve into intricate topics such as Tunnel FET negative capacitance FET device circuits and advanced FETs tailored for diverse circuit applications Beyond device centric discussions the book delves into the design intricacies of low power memory systems the fascinating realm of neuromorphic computing and the pivotal issue of thermal reliability Authors provide a robust foundation in device physics and circuitry while also exploring novel materials and architectures like transistors built on pioneering channel dielectric materials This exploration is driven by the need to achieve both minimal power consumption and ultra fast switching speeds meeting the relentless demands of the semiconductor industry The book s scope encompasses concepts like

MOSFET FinFET GAA MOSFET the 5 nm and 7 nm technology nodes NCFET ferroelectric materials subthreshold swing high k materials as well as advanced and emerging materials pivotal for the semiconductor industry's future *Emerging Low-Power Semiconductor Devices* Shubham Tayal, Abhishek Kumar Upadhyay, Deepak Kumar, Shiromani Balmukund Rahi, 2022-08-31 This book gives insight into the emerging semiconductor devices from their applications in electronic circuits. It discusses the challenges in the field of engineering and applications of advanced low power devices. *Emerging Low Power Semiconductor Devices: Applications for Future Technology Nodes* offers essential exposure to low power devices and applications in wireless biosensing and circuit domains. This book provides a detailed discussion on all aspects including the current and future scenarios related to the low power device. The book also presents basic knowledge about field effect transistor (FET) devices and introduces emerging and novel FET devices. The chapters include a review of the usage of FET devices in various domains like biosensing, wireless, and cryogenics applications. The chapters also explore device circuit co-design issues in the digital and analog domains. The content is presented in an easy-to-follow manner that makes it ideal for individuals new to the subject. This book is intended for scientists, researchers, and postgraduate students looking for an understanding of device physics, circuits, and systems. [Electrochemical Energy Systems](#) Artur Braun, 2018-12-03 This book is for anyone interested in renewable energy for a sustainable future of mankind. Batteries, fuel cells, capacitors, electrolyzers, and solar cells are explained at the molecular level and at the power plant level in their historical development, their economical and political impact, and social change. Cases from geophysics and astronomy show that electrochemistry is not confined to the small scale. Examples are shown and exercised. *Energy Scavenging for Wireless Sensor Networks* Shad Roundy, Paul Kenneth Wright, Jan M. Rabaey, 2012-12-06 The vast reduction in size and power consumption of CMOS circuitry has led to a large research effort based around the vision of wireless sensor networks. The proposed networks will be comprised of thousands of small wireless nodes that operate in a multi-hop fashion, replacing long transmission distances with many low power, low cost wireless devices. The result will be the creation of an intelligent environment responding to its inhabitants and ambient conditions. Wireless devices currently being designed and built for use in such environments typically run on batteries. However, as the networks increase in number and the devices decrease in size, the replacement of depleted batteries will not be practical. The cost of replacing batteries in a few devices that make up a small network about once per year is modest. However, the cost of replacing thousands of devices in a single building annually, some of which are in areas difficult to access, is simply not practical. Another approach would be to use a battery that is large enough to last the entire lifetime of the wireless sensor device. However, a battery large enough to last the lifetime of the device would dominate the overall system size and cost and thus is not very attractive. Alternative methods of powering the devices that will make up the wireless networks are desperately needed. **Strategies to Protect the Health of Deployed U.S. Forces** National Research Council, Commission on Life Sciences, Board on Environmental Studies and Toxicology, Commission on Engineering

and Technical Systems, Division of Military Science and Technology, Strategies to Protect the Health of Deployed U.S. Forces: Technology and Methods for Detection and Tracking of Exposures to a Subset of Harmful Agents, 2000-04-21 Since Operation Desert Shield Desert Storm Gulf War veterans have expressed concerns about health effects that could be associated with their deployment and service during the war Although similar concerns were raised after other military operations the Gulf War deployment focused national attention on the potential but uncertain relationship between the presence of chemical and biological CB agents and other harmful agents in theater and health symptoms reported by military personnel Strategies to Protect the Health of Deployed U S Forces which is one of the four two year studies examines the detection and tracking of exposures of deployed personnel to multiple harmful agents *Foundations of Augmented Cognition* Dylan D. Schmorrow, Leah M. Reeves, 2007-08-24 This book constitutes the refereed proceedings of the Third International Conference on Augmented Cognition FAC 2007 held in Beijing China in July 2007 within the framework of the 12th International Conference on Human Computer Interaction HCII 2007 with 8 other thematically similar conferences It covers general Augmented Cognition methods and techniques and discusses various Augmented Cognition applications *Uninhabited Air Vehicles* National Research Council, Commission on Engineering and Technical Systems, Aeronautics and Space Engineering Board, National Materials Advisory Board, Committee on Materials, Structures, and Aeronautics for Advanced Uninhabited Air Vehicles, 2000-06-28 U S Air Force USAF planners have envisioned that uninhabited air vehicles UAVs working in concert with inhabited vehicles will become an integral part of the future force structure Current plans are based on the premise that UAVs have the potential to augment or even replace inhabited aircraft in a variety of missions However UAV technologies must be better understood before they will be accepted as an alternative to inhabited aircraft on the battlefield The U S Air Force Office of Scientific Research AFOSR requested that the National Research Council through the National Materials Advisory Board and the Aeronautics and Space Engineering Board identify long term research opportunities for supporting the development of technologies for UAVs The objectives of the study were to identify technological developments that would improve the performance and reliability of generation after next UAVs at lower cost and to recommend areas of fundamental research in materials structures and aeronautical technologies The study focused on innovations in technology that would leapfrog current technology development and would be ready for scaling up in the post 2010 time frame i e ready for use on aircraft by 2025 *America Inc.?* Linda Weiss, 2014-04-01 For more than half a century the United States has led the world in developing major technologies that drive the modern economy and underpin its prosperity In America Inc Linda Weiss attributes the U S capacity for transformative innovation to the strength of its national security state a complex of agencies programs and hybrid arrangements that has developed around the institution of permanent defense preparedness and the pursuit of technological supremacy She examines how that complex emerged and how it has evolved in response to changing geopolitical threats and domestic political constraints from the Cold War period to the post 9 11 era Weiss focuses on state

funded venture capital funds new forms of technology procurement by defense and security related agencies and innovation in robotics nanotechnology and renewable energy since the 1980s Weiss argues that the national security state has been the crucible for breakthrough innovations a catalyst for entrepreneurship and the formation of new firms and a collaborative network coordinator for private sector initiatives Her book appraises persistent myths about the military commercial relationship at the core of the National Security State Weiss also discusses the implications for understanding U S capitalism the American state and the future of American primacy as financialized corporations curtail investment in manufacturing and innovation

Polymers, Phosphors, and Volatiles for Radioisotope Microbatteries Kenneth E. Bower, Yuri A. Barbanel, Yuri G. Shreter, George W. Bohnert, 2002-06-19 As the first book written solely on the subject of nuclear batteries and their potential to revolutionize the electronics industry this text will appeal to a broad audience from engineers to energy policy makers This collection of contributions from leading U S and Russian nuclear researchers contains diverse discussions of the problems of using radioactive material for microelectronic power needs and it guides readers to future research in the area of long life high energy density batteries It describes the state of interdisciplinary research in radiochemistry tritium storage semiconductor fabrication integration into MEMS and other electronic devices and much more

Program Solicitation, 2001

High-Temperature Solid Oxide Fuel Cells for the 21st Century Kevin Kendall, Michaela Kendall, 2015-11-21 High temperature Solid Oxide Fuel Cells Second Edition explores the growing interest in fuel cells as a sustainable source of energy The text brings the topic of green energy front and center illustrating the need for new books that provide comprehensive and practical information on specific types of fuel cells and their applications This landmark volume on solid oxide fuel cells contains contributions from experts of international repute and provides a single source of the latest knowledge on this topic A single source for all the latest information on solid oxide fuel cells and their applications Illustrates the need for new more comprehensive books and study on the topic Explores the growing interest in fuel cells as viable sustainable sources of energy

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