

360 Night Perimeter Surveillance At Electro Optical

Panoramic cameras offer true real-time, 360-degree coverage of the surrounding area, valuable for a variety of defense and security applications, including force protection, asset protection, asset control, security including port security, perimeter security, video surveillance, border control, airport security, coastguard operations, search and rescue, intrusion detection, and many others. Automatic detection, location, and tracking of targets outside protected area ensures maximum protection and at the same time reduces the workload on personnel, increases reliability and confidence of target detection, and enables both man-in-the-loop and fully automated system operation. Thermal imaging provides the benefits of all-weather, 24-hour day/night operation with no downtime. In addition, thermal signatures of different target types facilitate better classification, beyond the limits set by camera's spatial resolution. The useful range of catadioptric panoramic cameras is affected by their limited resolution. In many existing systems the resolution is optics-limited. Reflectors customarily used in catadioptric imagers introduce aberrations that may become significant at large camera apertures, such as required in low-light and thermal imaging. Advantages of panoramic imagers with high image resolution include increased area coverage with fewer cameras, instantaneous full horizon detection, location and tracking of multiple targets simultaneously, extended range, and others. The Automatic Panoramic Thermal Integrated Sensor (APTIS), being jointly developed by Applied Science Innovative, Inc. (ASI) and the Armament Research, Development and Engineering Center (ARDEC) combines the strengths of improved, high-resolution panoramic optics with thermal imaging in the 8 - 14 micron spectral range, leveraged by intelligent video processing for automated detection, location, and tracking of moving targets. The work in progress supports the Future Combat Systems (FCS) and the In.

During his senior year in high school, author Bill Bowers needed to make some tough decisions about his life path. At seventeen, he made a commitment to join the Air Force. On October 5, 1984, he began his military career. In Nighthawk A Young Airmans Tour at Clark Air Base, he recounts his coming of age in the 1980s while stationed at Clark Air Base in the Philippines. Through a series of vignettes centered on the antics and comedic misadventures of a young airmans first tour of duty, this memoir offers a mirror of who we are as individuals. It shares real-life stories that explore the ups and downs of service in the military, the culture and economy of the Philippines, and the actions of a bunch of kids tossed onto an island paradise. Nighthawk A Young Airmans Tour at Clark Air Base focuses on a self-proclaimed screw-up with a moral compass that often causes conflict. It tells how an eighteen-year-old kid fresh out of high school became a man.

From the world-wide leader in strange-but-true stories comes a fascinating book full of the marvels of mechanical men, glimpses into tomorrow's technology...and what happens when machines go mad. It's a robot invasion! For more than 25 years, the writers at the Bathroom Readers' Institute have had a soft spot in their hearts for all things robotic. From the promise of artificial intelligence making the world a better place to the threat of an android apocalypse, we never get tired of reading about robots. They perform surgery, traverse the surface of Mars, and even cook a perfect steak...until they malfunction and chase after their human creators. Uncle John's Robotica will stimulate your humor sensors with hundreds of incredible stories about robots from the past, the present...and the future. Prepare to be assimilated as you read about... • Robotic suits...controlled by monkeys • The robot that can rebuild itself • The world's first robot • Pop-culture robots (such as the mecha-Michael Jackson with laser-shooting eyes) • Robotic roaches that herd real cockroaches • Microscopic nanobots that heal you before you know you're sick • Garbage-eating robots • What are the actual chances of a Terminator-style robot war? And much, much more!

CTC quarterly bulletin

Uncle John's Robotica

Solving Problems in Security, Surveillance and Law Enforcement with Optical Instrumentation

Automatic Thermal Infrared Panoramic Imaging Sensor

The 112th Cavalry Regiment in World War II

Fighting on the Brink

A complete reference on CCTV technology Gives practical advice on the proper uses of CCTV to best protect against crime Contains more than 100 photos of the most modern equipment available.

This authoritative new resource provides an overview of the deployment of various devices in systems in actual field conditions and efficacy established in warfare. The book covers laser and optronic technologies that have evolved over the years to build practical devices and systems for use in Homeland Security and low-intensity conflict scenarios. Readers will be able to assess combat and battle-worthyness of various available devices and systems. This book covers state-of-the-art and emerging trends in various optoelectronics technologies having applications in Homeland Security. It provides information on operational aspects, deployment scenarios, and actual usage of laser and optoelectronics based technologies for low intensity conflicts, offering insight into the utility of each technology/device for a given operational requirement. This book evaluates the merits of various laser and optoelectronic sensor based technologies intended for low intensity conflict operations, including counter-insurgency and anti-terrorist operations. It is a useful reference for those specializing in defense electronics and optronics and professionals in the defence industry involved in operation and maintenance of laser based security equipment. Packed with tables, photographs, and a comprehensive list of references in every chapter, this is the only book that covers all topics related to Laser and Optoelectronics devices intended for low intensity conflict operations in a single volume.

Examines the combat experience of Israel's ground forces in the Al-Aqsa Intifada in order to offer a set of innovative concepts for understanding irregular warfare.

Symbiosis

UKY Bulletin

Landigal

Defense of the Pusan Perimeter

Learning Under Fire

Passive Panoramic Image Fusion (PPIF) for 360 Degree Situational Awareness to Support Operations in Urban Terrain

Historically, security managers have tended to be sourced from either the armed forces or law enforcement. But the increasing complexity of the organisations employing them, along with the technologies employed by them, is forcing an evolution and expansion of the role, and security managers must meet this challenge in order to succeed in their field and protect the assets of their employers. Risk management, crisis management, continuity management, strategic business operations, data security, IT, and business communications all fall under the purview of the security manager. This book is a guide to meeting those challenges, providing the security manager with the essential skill set and knowledge base to meet the challenges faced in contemporary, international, or tech-oriented businesses. It covers the basics of strategy, risk, and technology from the perspective of the security manager, focussing only on the 'need to know'. The reader will benefit from an understanding of how risk management aligns its functional aims with the strategic goals and operations of the organisation. This essential book supports professional vocational accreditation and qualifications, such as the Chartered Security Professional (CSP) or Certified Protection Professional (CPP), and advises on pathways to higher education qualifications in the fields of security and risk management. It is ideal for any risk manager looking to further their training and development, as well as being complementary for risk and security management programs with a focus on practice.

The commanding officer of an infantry battalion in Vietnam in 1969 recounts how he took over a demoralized unit of ordinary draftees and turned it into an elite fighting force, and describes its accomplishments.

CCTV SurveillanceVideo Practices and TechnologyElsevier

The Irish at Rorke ' s Drift

Applied Optical Electronics (Volume Three)

Of Those who Fly

1972 Carnahan Conference on Electronic Crime Countermeasures, April 19-21, 1972

Conditions for Success, Consequences of Failure

U.S. Army Engineer Sapper Handbook

Resistance is futile. You can run, but you'll only die tired. The AC-130 Gunship was quickly developed in 1968 to provide fire support for ground forces in Vietnam. Twenty-eight C-130 cargo aircraft were converted into AC-130s for night attack operations. The AC-130 was crude, ugly, ad hoc, and detested by many within the USAFbut it worked, and it worked well. Likewise, AC-130 crews were deemed unruly [biker gangs,] but performed magnificently in every major US military operation from 1976 to 1995. Most of these combat operations were cloaked in secrecy, but records once classified for up to twenty years have now been opened. Based on this newly declassified information and hundreds of interviews with SOF veterans, Ghostriders 1976-1995 is the first authoritative historical account of the AC-130 operations, written by an AC-130 Aerial Gunner who participated in every AC-130 combat operation from 1980 through 1994.

Although a cease-fire agreement was signed in Panmunjom on July 27, 1953, fighting between North and South Korea never stopped. The hot war was replaced by a low-intensity war. Terrorism, assassinations, infiltration of spies, and the like replaced tank battles and artillery duels. Until 1993, the United States patrolled its sector of the DMZ (demilitarized zone) in South Korea. In Call Sign: Purple Three, author Mark Heathco, who pulled 385 missions inside the DMZ during his military career, describes the preparation for a dangerous patrol in August 1985. This memoir follows the soldiers as they arrive at Warrior Base, refit for war, and finally execute the patrol itself. With great detail, Call Sign: Purple Three provides keen insight into the Korean DMZ at a time when the world thought all was well in Korea, but in reality chaos was just a hair trigger away. This insider's memoir offers an understanding of what these soldiers did and the sacrifices they made.

A veteran journalist and author of Balkan Ghosts offers a thought-provoking look at American imperialism from the perspective of the global war on terrorism and the role of America's elite military forces, in a study that reassesses the changing involvement of the United States in world affairs. Reprint. 40,000 first printing.

Vietnam

Ghostriders 1976-1995

Video Practices and Technology

The Hopeless to Hardcore Transformation of U.S. Army, 4th Battalion, 39th Infantry, Vietnam

Handbook of Optoelectronics

Warfighting Techniques and Procedures

On August 3, 2006, thirteen US Soldiers were sent to the worst village in the Korangal Valley. Abandoned by the Afghan National Army soldiers supporting them, the small force was ambushed by a numerically superior Taliban force. Almost out of ammunition and water, the survivors were ordered to continue their mission. Landigal is a story of courage and shows how the American soldiers who served in the Korangal Valley live up handsomely to the finest traditions of a superb fighting force – the United States 10th Mountain Division.

Thrown into the heart of war with little training--and even less that would apply to the battles in which they were engaged--the units of the 112th Cavalry Regiment faced not only the Japanese enemy, but a rugged environment for which they were ill-prepared. They also grappled with the continuing challenge of learning new military skills and tactics across ever-shifting battlefields. The 112th Cavalry Regiment entered federal service in November 1940 as war clouds gathered thick on the horizon. By July 1942, the 112th was headed for the Pacific theater. As the war neared its end, the regiment again had to shift its focus quickly from an anticipated offensive on the Japanese home islands to becoming part of the occupation force in the land of a conquered enemy. James S. Powell thoroughly mines primary documents and buttresses his story with pertinent secondary accounts as he explores in detail the ways in which this military unit adapted to the changing demands of its tactical and strategic environment. He demonstrates that this learning was not simply a matter of steadily building on experience and honing relevant skills. It also required discovering shortcomings and promptly taking action to improve--often while in direct contact with the enemy.

The word Zulu means 'heaven', but for the suddenly besieged and minute British garrison at Rorke's Drift, among them a key faction of Irish soldiers, it represented a hellish horde of warriors from the Zulu nation. A Bloody Night documents the terrifying struggle of these Irishmen as thousands of poorly armed but well-trained Zulus unexpectedly hurled themselves in a head-long, deadly onslaught against their hastily barricaded trading station and mission hospital. The battle, a defining clash in the 1879 Anglo-Zulu war, was a bare struggle for survival; the deeds and heroics of the Irish soldiers, subdued within the grand narrative, were no less exceptional than that of their English counterparts. Dan Harvey brings examples of their sheer resilience to the fore. The defence of Rorke's Drift was an epic encounter and an exceptional piece of soldiering. Its tale of courage in adversity against impossible odds endures; the little-known but significant role of those Irishmen present is no less absorbing a story, and all the more intriguing for its unheralded heroism.

Jane's International Defense Review

Practical Applications of Infrared Thermal Sensing and Imaging Eqmpt

A Sniper's Story in Iraq and Afghanistan

A Strategic Guide

Naval Construction Forces Manual, 1969

The Passive Panoramic Image Fusion (PPIF) system provides 360 degree situational awareness to the crew of an armored combat, surveillance and troop transport vehicle during the day or night. Real time, pixel based fusion of infrared and visual video with pan and zoom capability. It aids armed urban operation with surveillance, peace keeping operations, and perimeter control. It encompasses 3 ban fusion: near infrared, far infrared, and visible.

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Handbook of Optoelectronics offers a self-contained reference from the basic science and light sources to devices and modern applications across the entire spectrum of disciplines utilizing optoelectronic technologies. This second edition gives a complete update of the original work with a focus on systems and applications. Volume I covers the details of optoelectronic devices and techniques including semiconductor lasers, optical detectors and receivers, optical fiber devices, modulators, amplifiers, integrated optics, LEDs, and engineered optical materials with brand new chapters on silicon photonics, nanophotonics, and graphene optoelectronics. Volume II addresses the underlying system technologies enabling state-of-the-art communications, imaging, displays, sensing, data processing, energy conversion, and actuation. Volume III is brand new to this edition, focusing on applications in infrastructure, transport, security, surveillance, environmental monitoring, military, industrial, oil and gas, energy generation and distribution, medicine, and free space. No other resource in the field comes close to its breadth and depth, with contributions from leading industrial and academic institutions around the world. Whether used as a reference, research tool, or broad-based introduction to the field, the Handbook offers everything you need to get started. John P. Dakin, PhD, is professor (emeritus) at the Optoelectronics Research Centre, University of Southampton, UK. Robert G. W. Brown, PhD, is chief executive officer of the American Institute of Physics and an adjunct full professor in the Beckman Laser Institute and Medical Clinic at the University of California, Irvine.

Journal of the U.S. Army Intelligence & Security Command

Jane's Electro-optic Systems

Technical Abstract Bulletin

CCTV Surveillance

Optoelectronics for Low-Intensity Conflicts and Homeland Security

Long Rifle

Soldier's Reverie takes you on multiple journeys—each one a story of its own and each one intertwined with another. Whether it's being conned by smooth ladies of the night or isolated and fighting for your life, the story paints a vivid portrait and drops you right in the middle of it. You will feel the sweltering tropical heat and experience the chill of the monsoon rains and know more about the garrison soldiers, McNamara's 100,000, black marketers, mamasans, business girls, recon soldiers, the "too often caught in the middle" Vietnamese villages, and the Viet Cong. As their lives evolve and stories intertwine, war touches all of them—from a middle school dropout becoming a recon team tail gunner and from a goose herder becoming a lethal Viet Cong tracker.

Detective Mike Calvert returns to the Austin Police Department from his retirement two years ago to help his former partner, Frank Murphy, solve the case of a serial killer who has killed in three states. The psychotic murderer is a twin who harbors resentment towards his birth parents and proceeds to go on a killing spree that leaves four sets of twins dead. Other university students are terrorized and killed as Nathan Harrison, AKA The Silencer in this suspense thriller, terrorizes the university community in Austin, Texas. His MO includes slicing his victims' throats, running a metal stake through their chest cavities, and tying them up in a symbolic gesture of perpetual enmeshment. The deranged assassin eludes the APD, FBI, and Detectives Calvert and Murphy, continuing his senseless rampage. Mike's intelligent and beautiful wife, Kim, is abducted by Harrison and flown to Cabo San Lucas, Mexico, where she is held hostage. Follow Mike Calvert as he attempts to save his wife and bring the gunman to justice. The beautiful town of Cabo and its people serve as a backdrop for the last third of this suspense thriller that will leave the reader in shock.

When fires raged in the ruins of the World Trade Center on September 11, 2001, Joe LeBleu, a native of Brooklyn and a retired U.S. Army Ranger veteran, was in lower Manhattan. On that day he decided to return to active duty. By the time he received an honorable discharge as a Staff Sergeant, paratrooper, and sniper team leader in the 82nd Airborne Division in 2005, he'd become known as "Long Rifle"—for shooting an Iraqi insurgent at 1,100 meters in Fallujah in the fall of 2003. That single shot remains the farthest in Iraq by any American or British sniper. This book tells his story. Long Rifle is gripping and moving, but most of all, inspiring. As 9/11 altered the terrain of so many lives, it shaped that of Joe LeBleu: "Watching my city burn tore me up inside like nothing else in my life, ever." Joe takes us with him from that haunting day in New York across the world, to the sweltering heat and ambush-rife conditions of desert and urban combat in Iraq. From here we enter a vastly different world: the remote and rugged mountains of Afghanistan. Joe's accounts of sniper missions against the Taliban and Al Qaeda in this grueling landscape are engaging and intriguing. Finally, Joe trusts his gut and returns to civilian life, settling near Las Vegas and going on to train Mark Wahlberg for his role as a Force Recon Marine scout/sniper in the film, Shooter. Joe had come full circle from 9/11, "a day that changed my life forever." Raw, gritty, passionate, and provocative, Long Rifle is both the first memoir by a U.S. Army sniper from the 9/11 generation and a stirring testament to the core values of American soldiers: integrity, honor, and courage.

LeBleu's journey to war and back also testifies to the enduring power of love: Joe carried his dream to return to Natalie, his wife, for six long years.

Professional Security Management

Soldier's Reverie

A Bloody Night

Proceedings

A Young Airman'S Tour at Clark Air Base

Armor

PART II Volumes 6-9 The original "no bullshit" soldier's handbooks, loaded with tips, tricks and ideas on how to live and thrive in a military outdoor environment through field expedient know-how. This is the second of two new collections that compiles all the original 9 volumes into a new 'Complete and Revised Edition'. From how to take a dump in the woods, improvise, modify and improve military and civilian outdoor gear, combat survival techniques, reducing field boredom, leadership tips, jokes and much more. NOT your typical boring military field manual, this second half of the collection contains info that will keep you one step ahead of your average soldier. Rangers lead the way! This newly revised edition of the remaining four original volumes adds even more tips, updated equipment info, new supplier info (and web links) and way more.

Perimeter Security has taken on a new level of importance since 9/11. Whether insuring the safety of government buildings, hospitals, residences, or bio-research labs, the safety of workers and materials can only be ensured by outfitting all points of entry with the appropriate alarm and surveillance equipment. This comprehensive hands-on resource focuses on designing, installing, and maintaining perimeter security for buildings. Audience includes architects, engineers, facility managers, and security consultants Includes checklists, survey forms, and questionnaires Shows how to plan and design fences, gates, and other barriers; design protective lighting; select the right intrusion detection systems; evaluate risk; and secure specific areas

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