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Command and Control *Command, Control, and Communications Systems Engineering* **Toward a Science of Command, Control, and Communications** **Command, Control, and the Common Defense** **Command Control for Toy Trains** **Command and Control: The Sociotechnical Perspective** *Command, Control, and Communications Lessons Learned in Division Command* Nuclear Command, Control, and Communications Command, Control, and the Common Defense **Strategic Command, Control and Communications** **Strategic Command and Control Modelling Command and Control** **Command, Control, and Communications Technology** **Information Mechanics** Command and Control for War and Peace **Incident Command, Control, and Communications During Catastrophic Events** A Guide to U.S. Navy Command, Control, and Communications **Command or Control?** Command and Control and Communications Structures in Southeast Asia **Freedom from Command and Control** Nuclear Command and Control Norms Human Factors Problems of the Command, Control, and Communication Process in the 1990's **Command and Control in Military Crisis** **Freedom from Command and Control** *Investigation of the ADA Language Implementation of the Hellenic Command Control and Information System* **A Design Algorithm for Transportable Command, Control, and Communications (C3) Sysyems [i.e. Systems]** Command and Control European Theater Command, Control, and Communications (ETC3) Computer Model User's Guide Cooperative Interface Agents for Networked Command, Control and Communications (CIANC3) **Communications - Fusing Command, Control and Intelligence** Command Control Understanding Command and Control Year 2000 Compliance of Selected Mission Critical Command, Control, and Communications Systems Managed by the Defense Information Systems Agency *Command-control for Real-time Systems* Modelling Command and Control *Electronic Warfare (EW) and Command, Control, and Communications Countermeasures (C3CM).Integrated Information Processing/Communications: The Key to Command, Control and Intelligence on the Extended Battlefield* **Coordination of United States Command, Control, Communications, and Computer Systems Positions in International Forums** **Guidelines for Command, Control, and Communication Computer Networks for the Republic of China Navy** Network Topology in Command and Control: Organization, Operation, and Evolution

This report describes research completed on the first four tasks of the study. Two quite different descriptive structures are built that will interact in subsequent tasks to provide the study outcome. First, a set of human factors activities involved in the C(3) process is enumerated and the determining forces controlling these human factors are elaborated. Second, a list of variables constituting the set of relevant dimensions of future (1990) environments for C(3) centers is developed, and, by analyzing the literature and exploring expert opinion, values for these variables are specified which in aggregate constitute meaningful alternative futures. (Author). Incident command, control, and communications during catastrophic events: hearing before the Subcommittee on Emergency Preparedness, Science, and Technology of the Committee on Homeland Security, House of Representatives, One Hundred Ninth Congress, first session, September 29, 2005. As a string of unexplained attacks push superpowers to the brink, the clock is ticking toward the start of World War III. Don Riley, head of the CIA's Emerging Threats Group, has never seen anything like this. Riley and his team are tasked with identifying national security threats before they become tomorrow's bad news. But shortly after an Iranian vessel delivers a surprise attack to a US Navy Warship in the Arabian Gulf, a series of seemingly unrelated attacks crop up around the globe. The US military is rapidly being drawn into full-fledged shooting wars on multiple fronts. Now Riley must sift through the layers of deception in time to discover who-or what-is behind these events... ...before the clock reaches zero hour. Command and Control is the explosive first book in a brand new series co-written by former submarine officer, David Bruns, and former retired naval intelligence officer, J.R. Olson. Dive into this nail-biting techno-thriller today, and brace yourself for an electrifying dose of military action, political intrigue, twist-filled espionage. The essay begins with the observation that sensor/surveillance, targeting, and command and control systems are proliferating at unprecedented rates. Similar concurrent growth in communications capabilities, on which tactical automated systems rely, has not taken place. The key to successful employment of tactical automated systems generate and the author argues that the use of packet radio technology is the best way to satisfy this requirement. (Author). Since its inception, just after the Second World War, Human Factors research has paid special attention to the issues surrounding human control of systems. Command and control environments continue to represent a challenging domain for human factors research. Modelling Command and Control takes a broad view of command and control research, to include C2 (command and control), C3 (command, control and communication), and C4 (command, control, communication and computers) as well as human supervisory control paradigms. The book presents case studies in diverse military applications (for example, land, sea and air) of command and control. The book explores the differences and similarities in the land, sea and air domains; the theoretical and methodological developments, approaches to system and interface design, and the workload and situation awareness issues involved. It places the role of humans as central and distinct from other aspects of the system. Using extensive case study material, Modelling Command and Control demonstrates how the social and technical domains interact, and why each require equal treatment and importance in the future. This is a management book that challenges convention and aims to appeal to a wide target audience. It argues that while many commentators acknowledge command and control is failing us, no one provides an alternative. This study project is a review of command, control, and communications lessons learned at the division level from 1985 to 1991. The lessons were taken from Division Command Lessons Learned Program pamphlets for designated Division Commanders called Experiences in Division command and other related division-level command, control, and communications lessons literature. Lessons about division command, control, and communications are identified and recommendations for corrective action are made. Over the past decade, the Command and Control (C2) field has been making a transformation from top-down, directive command to Network Centric Operations (NCO), peer-to-peer negation, self-synchronization, and agility. As the terms NCO and NEC suggest, C2 systems are regarded as networks, rather than a hierarchy. Accordingly, it is appropriate to view the C2 process and C2 systems through the lens of network theory. Network Topology in Command and Control: Organization, Operation, and Evolution aims to connect the fields of C2 and network science. Featuring timely research on topics pertaining to the C2 network evolution, security, and modeling, this publication is ideal for reference use by students, academicians, and security professionals in the fields of C2 and network science. "Command and Control is failing us. There is a better way to design and manage work - a better way to make work work - but it remains unknown to the vast majority of managers." An adherent of the Toyota Production System, John Seddon explains how traditional top-down decision making within service organizations leads to managers The overall objective was to determine whether the Defense Information Systems Agency (DISA) has adequately planned for and managed year 2000 conversion risks to avoid undue disruption to selected mission critical command, control, and communications systems used in support of Unified Command operations Specifically, we reviewed year 2000 conversion risk assessments, contingency plans for mission critical systems, and continuity of operations plans for systems managed by the DISA and identified by unified commanders as mission critical to their operations. This Directive reissues reference (a) Directive 3222.4, Electronic Warfare Administration, January 28, 1980 and replaces reference (b) DoD directive 4600.4, Command, Control, and Communications (C3) Countermeasures, August 27, 1979 (hereby canceled) to update the administration of and organizational responsibilities for EW and C3CM in the Department of Defense. Since its inception, just after the Second World War, Human Factors research has paid special attention to the issues surrounding human control of systems. Command and control environments continue to represent a challenging domain for human factors research. Modelling Command and Control takes a broad view of command and control research, to include C2 (command and control), C3 (command, control and communication), and C4 (command, control, communication and computers) as well as human supervisory control paradigms. 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This thesis examines the features of the Ada language, describes the structure of the Hellenic Command Control and Information System (HCCIS) and investigates the use of Ada for the program development of HCCIS. The Ada high order programming language system is being procured to act as a standard for the implementation of future United States embedded computer systems. Many benefits are claimed from this approach for software engineering and management practice. HCCIS is a future system which will provide a network of automatic data processing support at Commands. Maya worked hard jobs all her life, and a devastating explosion at sea turned her from a hard worker into a crispy critter. Bedridden and blind, she accepts the order from the Volunteer Project and gets herself reset into a body that can move and skin that isn’t black. She did not think of anything aside from getting her body back under her control, so when she ends up at her assignment as a guardian communicator and tactician for three worlds, she does the job with good cheer until she got the first day off. Having locals trying to seduce her was strange, but knowing that she had been reset with the genes to be one of their queens, she just tried to ignore it. An act of kindness puts her in the path of a guardian who coincidentally also has a day off, and her day in the sun warms up considerably from there. The next day she meets his teammate, and the next teammate the day after that. The new genes come with new morals and less control. One of the challenges facing the writer is keeping up with developments in the information age. While Command, Control, and the Common Defense provides a historical perspective on a contemporary problem, it was written in the late l980s; since then, the end of the Cold War and the American experience in the Gulf War have provided some fundamentally new perspectives of their own. Re-written history has its own pitfalls; a better solution was to leave the original content intact and to add as an epilogue a chapter which originally appeared in a 1995 anthology on the Gulf War. Both works have, of course, been edited for consistency. Finally, there is reason to ponder in the light of more contemporary developments one of the major points in that original work: that the tight integration demanded by emerging command and control technologies often runs afoul of existing command structures and theories of warfare. As I completed the revisions to this edition while serving on special assignment with the NATO Implementation Force in Bosnia, there were daily reminders of the truth of that statement. Naval command, control, and communications (C3) is examined from early applications through the development of U.S. Navy C3 to date. Current national and Navy C3 systems and organizations are described. The role of C3 personnel is explained briefly. Finally, significant overall trends in U.S. Navy C3 technology and organization are identified. (Author). This thesis examines design criteria related to development of local and wide area networks for command, control, and communications (C3) systems, especially as such networks could be used by the Navy of the Republic of China, Taiwan. This study stresses the usefulness of modern computer networks and the importance of considering human factors and artificial intelligence systems during design of these networks. Various network technologies and communication methodologies used for local area networks (LANs) and wide area networks (WANs) are explored. Unified network systems for shore-based and ship-based systems and the integration of these systems are discussed. Information is included to provide Republic of China Navy officers with an awareness of how computer networks can improve C3 functions and make the military more efficient during both peacetime and wartime. (RH). This is a comparative study of the fighting systems of the British and German armies in The Great War. Taking issue with revisionist historians, Samuels argues that German success in battle can be explained by their superior tactical philosophy. The book provides a fascinating insight into the development of infantry tactics at a seminal point in the history of warfare. The first overview of US NC3 since the 1980s, Nuclear Command, Control, and Communications explores the current system, its vital role in ensuring effective deterrence, the challenges posed by cyber threats, and the need to modernize the United States' Cold War-era system of systems. Features practical advice on operating Lionel's new Legacy command control system and updated information for running MTH's DCS system as well as Lionel's earlier TrainMaster system. To properly engineer systems to provide unity of effort in command and control systems, it is necessary to have a science of command, control, and communications (C3). This book, the results of the Joint Directors of Laboratories Basic Research Group Program, is a collection of papers toward the goal of a science of C3. The topics include the logic of data fusion,

command and control decision systems modeling and behavior, experimental findings, models of command and control, and models of C3 architectures. This variety provides the reader with state-of-the-art perspective on concepts, models, and experiments to understand command, control, and communications. The results of a focused DoD basic research program in command, control and communications will be of particular interest to professionals and students working in the C3 field. Military command and control is not merely evolving, it is co-evolving. Technology is creating new opportunities for different types of command and control, and new types of command and control are creating new aspirations for technology. The question is how to manage this process, how to achieve a jointly optimised blend of socio and technical and create the kind of agility and self-synchronisation that modern forms of command and control promise. The answer put forward in this book is to re-visit sociotechnical systems theory. In doing so, the problems of 21st century command and control can be approached from an alternative, multi-disciplinary and above all human-centred perspective. Human factors (HF) is also co-evolving. The traditional conception of the field is to serve as a conduit for knowledge between engineering and psychology yet 21st century command and control presents an altogether different challenge. Viewing military command and control through the lens of sociotechnical theory forces us to confront difficult questions about the non-linear nature of people and technology: technology is changing, from platform centric to network centric; the interaction with that technology is changing, from prescribed to exploratory; and complexity is increasing, from behaviour that is linear to that which is emergent. The various chapters look at this transition and draw out ways in which sociotechnical systems theory can help to understand it. The sociotechnical perspective reveals itself as part of a conceptual toolkit through which military command and control can be transitioned, from notions of bureaucratic, hierarchical ways of operating to the devolved, agile, self-synchronising behaviour promised by modern forms of command and control like Network Enabled Capability (NEC). Sociotechnical system theory brings with it a sixty year legacy of practical application and this real-world grounding in business process re-engineering underlies the entire book. An attempt has been made to bring a set of sometimes abstract (but no less useful) principles down to the level of easy examples, design principles, evaluation criteria and actionable models. All of these are based on an extensive review of the current state of the art, new sociotechnical/NEC studies conducted by the authors, and insights derived from field studies of real-life command and control. Time and again, what emerges is a realisation that the most agile, self-synchronising component of all in command and control settings is the human. After summarizing the assumptions and evaluative methodology behind mainstream strategic theory, the study describes the current decentralized command and control system that, under conditions of surprise attack, could be unable to communicate with decision makers or with units responsible for executing the decisions. This book offers a new analytical framework for studying nuclear command and control (C2), based on a comparative study of four nuclear weapons states (NWS). The subject of nuclear operations management has long been shrouded in secrecy, and whilst the importance of nuclear C2 cannot be disputed, there are few academic studies into how and why states develop these systems. This volume includes a comparative study of the development of nuclear C2 by four different NWS (Britain, China, India, and Pakistan) and demonstrates that, despite several differences, there is a central set of factors that remain constant. The analytical framework used in this study identifies key factors that can potentially shape the evolution and stability of nuclear C2. These factors include geostrategic (threat) environment, international norms, leadership, and control of nuclear operations (civil-military control). The book also analyses the interaction among different stakeholders within the nuclear C2 enterprise. It recognises that politicians, the military and scientists all have key but different roles to play, and the way these stakeholders have learned to co-exist with each other is explored. This volume offers a set of dynamics that could form a global norm for nuclear C2, serving as a standard for new entrants into the nuclear club. This book will be of much interest to students of nuclear proliferation, global governance, and International Relations in general. Provides a broad view of the human, organizational, budgetary, and procedural elements fundamental to command and control. Also discusses how the command and control concept has grown into command, control, communications, intelligence, and information (C3I). Illustrated. "Understanding Command and Control is the first in a new series of CCRP Publications that will explore the future of Command and Control ... This book begins at the beginning: focusing on the problem(s) Command and Control was designed (and has evolved) to solve. It is only by changing the focus from what Command and Control is to why Command and Control is that we will place ourselves in a position to move on"--Preface. The Oscar-shortlisted documentary Command and Control, directed by Robert Kenner, finds its origins in Eric Schlosser's book and continues to explore the little-known history of the management and safety concerns of America's nuclear aresenal. “A devastatingly lucid and detailed new history of nuclear weapons in the U.S. Fascinating.” —Lev Grossman, TIME Magazine “Perilous and gripping . . . Schlosser skillfully weaves together an engrossing account of both the science and the politics of nuclear weapons safety.” —San Francisco Chronicle A myth-shattering exposé of America’s nuclear weapons Famed investigative journalist Eric Schlosser digs deep to uncover secrets about the management of America’s nuclear arsenal. A groundbreaking account of accidents, near misses, extraordinary heroism, and technological breakthroughs, Command and Control explores the dilemma that has existed since the dawn of the nuclear age: How do you deploy weapons of mass destruction without being destroyed by them? That question has never been resolved—and Schlosser reveals how the combination of human fallibility and technological complexity still poses a grave risk to mankind. While the harms of global warming increasingly dominate the news, the equally dangerous yet more immediate threat of nuclear weapons has been largely forgotten. Written with the vibrancy of a first-rate thriller, Command and Control interweaves the minute-by-minute story of an accident at a nuclear missile silo in rural Arkansas with a historical narrative that spans more than fifty years. It depicts the urgent effort by American scientists, policy makers, and military officers to ensure that nuclear weapons can’t be stolen, sabotaged, used without permission, or detonated inadvertently. Schlosser also looks at the Cold War from a new perspective, offering history from the ground up, telling the stories of bomber pilots, missile commanders, maintenance crews, and other ordinary servicemen who risked their lives to avert a nuclear holocaust. At the heart of the book lies the struggle, amid the rolling hills and small farms of Damascus, Arkansas, to prevent the explosion of a ballistic missile carrying the most powerful nuclear warhead ever built by the United States. Drawing on recently declassified documents and interviews with people who designed and routinely handled nuclear weapons, Command and Control takes readers into a terrifying but fascinating world that, until now, has been largely hidden from view. Through the details of a single accident, Schlosser illustrates how an unlikely event can become unavoidable, how small risks can have terrible consequences, and how the most brilliant minds in the nation can only provide us with an illusion of control. Audacious, gripping, and unforgettable, Command and Control is a tour de force of investigative journalism, an eye-opening look at the dangers of America’s nuclear age. A real-time system is a complex system which is an integral part of an industrial or experimental system, a vehicle or a construction machine. The peculiarity of these systems is that they are driven by real-time targets in distributed environments. Command-control for Real-time Systems presents the calculation of correction for industrial systems of different physical natures, their implementation on real-time target industrial systems (PLC-SCADA, embedded systems with distributed networks, Networked Control Systems) and their validation by simulation. It optimizes industrial processes by the use of automatic tools, industrial computing and communications networks and aims to successively integrate new control laws (linear, nonlinear and fuzzy controllers) so that users can leverage the power of engineering science as an automatic service process optimization while maintaining their high maintainability facilities. Contents 1. Introduction. 2. Modeling Tools, Sébastien Cabaret and Mohammed Chadli. 3. Control Tools, Mohammed Chadli and Hervé Coppier. 4. Application to Cryogenic Systems, Marco Pezzetti, Hervé Coppier and Mohammed Chadli. 5. Applications to a Thermal System and to Gas Systems, Sébastien Cabaret and Hervé Coppier. 6. Application to Vehicles, Elie Kafrouni and Mohammed Chadli. 7. Real-time Implementation, Marco Pezzetti and Hervé Coppier. About the Authors Mohamed Chadli is a senior lecturer and research supervisor at the University of Picardie Jules Verne (UPJV) in France. His main research interests lie in robust control, the diagnosis and fault tolerant control of polytopic systems and applications for automobiles. He is a senior member of the IEEE, and Vice President of the AAI Club as part of SEE-France. He is the author/co-author of 3 books, book chapters and more than 100 articles published in international journals and conferences. Hervé Coppier is a lecturing researcher at ESIEE-Amiens in France. He has collaborated with industrialists in the field of automation and industrial computing, particularly with CERN, and has spearheaded various international European projects. DRAFT report intended to provide the user of the European Theater Communications, Command, and Control (ETC3) computer model with all information required to operate the program. (Author).

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