1. Record Nr. UNINA9910456066803321

Titolo	Cryptography's role in securing the information society [[electronic resource] /] / Kenneth W. Dam and Herbert S. Lin, editors
Pubbl/distr/stampa	Washington, DC, : National Academy Press, 1996
ISBN	1-280-19228-3 9786610192281 0-309-52254-4 0-585-02525-8
Descrizione fisica	1 online resource (720 p.)
Altri autori (Persone)	DamKenneth W LinHerbert
Disciplina	652.8
Soggetti	Telecommunication systems - Security measures - Government policy - United States Cryptography Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Committee to Study National Cryptography Policy, Computer Science and Telecommunications Board, Commission on Physical Sciences, Mathematics, and Applications, National Research Council."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Front Matter""; ""Preface""; ""Contents""; ""Executive Summary""; ""PART I Framing the Policy Issues""; ""1 Growing Vulnerability in the Information Age""; ""2 Cryptography: Roles, Market, and Infrastructure""; ""3 Needs for Access to Encrypted Information""; ""4 Export Controls""; ""5 Escrowed Encryption and Related Issues""; ""6 Other Dimensions of National Cryptography Policy""; ""PART III Policy Options, Findings, and Recommendations""; ""7 Policy Options for the Future""; ""8 Synthesis, Findings, and Recommendations"" ""A Contributors to the NRC Project on National Cryptography Policy"""""" B Glossary""; ""C A Brief Primer on Cryptography""; ""D An Overview of Electronic Surveillance: History and Current Status""; ""E A Brief History of Cryptography Policy""; ""F A Brief Primer on Intelligence""; ""G The International Scope of Cryptography Policy""; ""H Summary of Important Requirements for a Public-Key Infrastructure""; ""I Industry-Specific

		Dimensions of Security""; ""J Examples of Risks Posed by Unprotected Information""; ""K Cryptographic Applications Programming Interfaces"" ""L Other Looming Issues Related to Cryptography Policy""""M Federal Information Processing Standards""; ""N Laws, Documents, and Regulations, Relevant to Cryptography""; ""Index""
2.	Record Nr.	UNINA9910957771303321
	Titolo	Improving engineering design : designing for competitive advantage / / Committee on Engineering Design Theory and Methodology, Manufacturing Studies Board, Commission on Engineering and Technical Systems, National Research Council
	Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1991
	ISBN	9786610211708 9781280211706 1280211709 9780309572248 030957224X 9780585143323 0585143323
	Edizione	[1st ed.]
	Descrizione fisica	1 online resource (119 p.)
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	Soggetti	Industrial design - United States Engineering design - United States
	Lingua di pubblicazione	Inglese
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	Nota di bibliografia	Includes bibliographical references (p. 85-93) and index.
	Nota di contenuto	Improving Engineering Design -- Copyright -- Preface -- Contents -- Executive Summary -- DESIGNING FOR COMPETITIVE ADVANTAGE -- IMPROVING ENGINEERING DESIGN EDUCATION -- A NATIONAL AGENDA FOR ENGINEERING DESIGN RESEARCH -- RECOMMENDATIONS -- 1 Introduction -- THE CENTRAL ROLE OF ENGINEERING DESIGN -- THE NATURE OF ENGINEERING DESIGN -- Findings-The Current State of Engineering Design in the United States -- THE CONSEQUENCES OF BETTER DESIGN PRACTICE, EDUCATION, AND RESEARCH -- 2 Designing

for Competitive Advantage -- CORPORATE COMMITMENT AND ACTION -- THE PRODUCT REALIZATION PROCESS -- Definition of Customer Needs and Product Performance Requirements -- Planning for Product Evolution -- Planning for Design and Manufacturing -- Product Design -- Manufacturing Process Design -- Production -- Difficulties in the Design of Complex Products -- IMPORTANT CONTEMPORARY DESIGN PRACTICES -- Traditional Practices -- Modern Practices for Setting Strategy and Specifications -- Modern Practices for Executing Designs -- UNDERSTANDING, MOTIVATING, AND SUPPORTING THE DESIGNER -- The Design Task -- The Designer -- Finding, Supporting, and Rewarding Effective Designers -- Elements of a Supportive Design Environment -- Summary -- 3 Improving Engineering Design Education -- THE GOALS OF ENGINEERING DESIGN EDUCATION -- Undergraduate Engineering Design Education -- Graduate Design Education -- THE STATUS OF ENGINEERING DESIGN EDUCATION -- Undergraduate Programs -- Graduate Programs -- Faculty -- IMPROVING DESIGN EDUCATION -- Institutional Initiatives for Reform -- Aiding Teachers of Design -- Improving University-Industry Interaction in Design Education -- Summary -- 4 A National Engineering Design Research Agenda -- THE NEED FOR BASIC RESEARCH IN ENGINEERING DESIGN -- A TOPICAL SEARCH AGENDA -- A. Developing Scientific Foundations for Design Models and Methods.
A.1. Computer Representations of In-Progress Designs -- A.2. Generating, Organizing, and Generalizing Design Knowledge -- A.3. Synthesis: Parametric, Configuration, and Conceptual Design -- A.4. Tolerance Synthesis -- B. Creating and Improving Design Support Tools -- B.1. Designer-Oriented Computational Prototyping, Analysis, and Simulation Tools -- B.2. Rapid Physical Prototyping -- B.3. Design For 'X' -- C. Relating Design to the Business Enterprise -- C.1 Quality-Cost Models -- C.2 Organization and Communication Models -- C.3. Innovation -- Benefits of Implementing the Engineering Design Research Agenda -- Resources Required -- DISSEMINATION OF RESEARCH RESULTS TO INDUSTRY -- A NATIONAL CONSORTIUM FOR ENGINEERING DESIGN -- 5 Recommendations -- IMPROVING DESIGN PRACTICE -- IMPROVING ENGINEERING EDUCATION -- Curricula -- Support for Faculty -- IMPROVING ENGINEERING DESIGN RESEARCH -- Aggressively Pursuing the Research Agenda -- Conducting Research -- National Consortium for Engineering Design -- Appendix A Examples of Product Realization Processes -- POLAROID'S PRP -- HEWLETT-PACKARD'S PRP -- Appendix B Course Outline for Contemporary Engineering -- Glossary -- Bibliography -- Notes -- Index.

Sommario/riassunto

Effective design and manufacturing, both of which are necessary to produce high-quality products, are closely related. However, effective design is a prerequisite for effective manufacturing. This new book explores the status of engineering design practice, education, and research in the United States and recommends ways to improve design to increase U.S. industry's competitiveness in world markets.