

1. Record Nr.	UNINA9910954930803321
Titolo	Aerospace software engineering : a collection of concepts // edited by Christine Anderson, Merlin Dorfman
Pubbl/distr/stampa	Washington, D.C., : American Institute of Aeronautics and Astronautics, c1991
ISBN	1-60086-609-3 1-60086-390-6 1-60119-253-3
Edizione	[1st ed.]
Descrizione fisica	1 online resource (636 p.)
Collana	Progress in astronautics and aeronautics ; ; v. 136
Altri autori (Persone)	AndersonChristine <1947-> DorfmanM (Merlin)
Disciplina	629.1 s 629.13/00285/53
Soggetti	Aeronautics - Computer programs Astronautics - Computer programs Software engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Cover""; ""Title""; ""Copyright""; ""Foreword""; ""Preface""; ""Table of Contents""; ""Chapter 1 Introduction""; ""1.1 Current Problems""; ""1.2 Current Practice""; ""Chapter 2 Life Cycle Models""; ""2.1 The DOD Life Cycle Mode""; ""2.2 NASA Life Cycle Model""; ""2.3 Alternative Software Life Cycle Models""; ""Chapter 3 Development Methodologies""; ""3.1 Requirements""; ""3.2 Design""; ""3.3 Testing""; ""3.4 Mathematical Forecasting""; ""3.5 Cleanroom: An Alternative Software Development Process""; ""Chapter 4 Tools and Environments""; ""4.1 Software Development Environments"" ""4.2 Tools and Environments""""Chapter 5 Software Engineering Management""; ""5.1 Management Principles""; ""5.2 Resource Estimation""; ""Chapter 6 Quality Assurance""; ""6.1 Reliability""; ""6.2 Safety""; ""6.3 Metrics""; ""Chapter 7 Programming Languages""; ""7.1 Programming Languages Overview""; ""7.2 Ada""; ""7.3 Artificial Intelligence Languages""; ""Chapter 8 Reuse""; ""8.1 Software Reuse: Definition and Overview""; ""8.2 Engineering and Application of

Reusable Software Resources"; "8.3 Reuse Tools"; "Chapter 9 Legal Issues"; "9.1 Legal Issues"
"Chapter 10 Emerging Technologies""10.1 Impact of Knowledge-Based Software Engineering on Aerospace Systems"; "10.2 Impact of Innovative Architectures"; "10.3 Symmetric Parallel Processing";
"Chapter 11 Non-U.S. Aerospace Software Engineering"; "11.1 Aerospace Software Engineering in France"; "11.2 Aerospace Software Engineering in the United Kingdom"; "11.3 Aerospace Software in Sweden"; "11.4 Aerospace Software Engineering in Japan"; "Chapter 12 Conclusion/Vision"; "12.1 Software Engineering of Tomorrow"; "12.2 Coping with the Crisis"; "Author Index for Volume 136"

Sommario/riassunto

Aerospace Software Engineering brings you the knowledge of some of the finest software engineers in the world in a single volume. This text is an essential guide for the aerospace program manager who must deal with software as part of the overall system and a valuable update for the practicing software engineer.
