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Titolo	Topdown / A. Chianese ...[et al.]
Pubbl/distr/stampa	Napoli : Liguori, 1988
ISBN	88-207-1727-1
Descrizione fisica	165 p. : ill. ; 24 cm + + Floppy disk
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Titolo	Examination of the U.S. Air Force's science, technology, engineering, and mathematics (STEM) workforce needs in the future and its strategy to meet those needs [[electronic resource] /] / Committee on Examination of the U.S. Air Force's Science, Technology ; Engineering and Mathematics (STEM) Workforce Needs in the Future and Its Strategy to Meet Those Needs, Air Force Studies Board ; Division on Engineering and Physical Sciences ; National Research Council of the National Academies
Pubbl/distr/stampa	Washington, : National Academies Press, 2010
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Nota di contenuto	""Front Matter""; ""Preface""; ""Acknowledgment of Reviewers""; ""Contents""; ""Acronyms""; ""Summary""; ""1 Introduction""; ""2 Role of STEM Capabilities in Achieving the Air Force Vision and Strategy""; ""3 Air Force Career Fields and Occupations That Currently Require a STEM Degree""; ""4 STEM Personnel in the Acquisition Workforce""; ""5 The Current and Future U.S. STEM-Degreed Workforce""; ""6 Managing STEM Personnel to Meet Future STEM Needs Across the Air Force""; ""7 The Need for Action""; ""Appendixes""; ""Appendix A: Biographical Sketches of Committee Members"" ""Appendix B: Meetings and Speakers""""""Appendix C: Supporting Demographic Data""; ""Appendix D: Air Force STEM Workforce""; ""Appendix E: Length of Time to Fill Civilian Positions""; ""Appendix F: Applying Basic Rated Management Process and Model to STEM""; ""Appendix G: Scientists, Engineers, and the Air Force: An Uncertain Legacy""
Sommario/riassunto	"The Air Force requires technical skills and expertise across the entire range of activities and processes associated with the development, fielding, and employment of air, space, and cyber operational capabilities. The growing complexity of both traditional and emerging missions is placing new demands on education, training, career development, system acquisition, platform sustainment, and development of operational systems. While in the past the Air Force's technologically intensive mission has been highly attractive to individuals educated in science, technology, engineering, and mathematics (STEM) disciplines, force reductions, ongoing military operations, and budget pressures are creating new challenges for attracting and managing personnel with the needed technical skills. Assessments of recent development and acquisition process failures have identified a loss of technical competence within the Air Force (that is, in house or organic competence, as opposed to contractor support) as an underlying problem. These challenges come at a time of increased competition for technical graduates who are U.S. citizens, an aging industry and government workforce, and consolidations of the industrial base that supports military systems. In response to a request from the Deputy Assistant Secretary of the Air Force for Science, Technology, and Engineering, the National Research Council conducted five fact-finding meetings at which senior Air Force commanders in the science and engineering, acquisition, test, operations, and logistics domains provided assessments of the adequacy of the current workforce in terms of quality and quantity"--Publisher's description.