

1. Record Nr.	UNINA9910963607603321
Titolo	Engineering technology education // Panel on Technology Education, Subcommittee on Engineering Educational Systems, Committee on the Education and Utilization of the Engineer, Commission on Engineering and Technical Systems, National Research Council
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1985
ISBN	9786610222070 9781280222078 1280222077 9780309569439 0309569435 9780585144689 0585144680
Edizione	[1st ed.]
Descrizione fisica	1 online resource (58 p.)
Collana	Engineering education and practice in the United States
Disciplina	620/.007/1173
Soggetti	Engineering - Study and teaching - United States Technology - Study and teaching - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Bibliography: p. 46-47.
Nota di contenuto	Engineering Education and Practice in the United States -- Copyright -- Preface -- Contents -- Executive Summary -- 1 The History of Technical Institutes -- ACCREDITATION -- ASSOCIATIONS -- DEVELOPMENT OF THE JUNIOR COLLEGE. -- CONTINUED DATA COLLECTION -- 2 Engineering Technology and Industrial Technology -- DEFINITIONS -- SECONDARY SCHOOL PREPARATION -- RECOMMENDATIONS. -- 3 Engineering Technology and Engineering -- SIMILARITIES -- DIFFERENCES -- TRANSFER OPPORTUNITIES -- RECOMMENDATIONS. -- 4 Engineering Technology Education -- GRADUATE STUDY -- Teacher Preparation -- Level of Graduate Study -- ASSOCIATE AND BACHELOR'S DEGREE PROGRAMS. -- Standardization of Curricula -- Class and Laboratory Hours -- STUDENT CHAPTERS -- RECOMMENDATIONS -- 5 Cooperative Education and Engineering Technology. -- FEDERAL ASSISTANCE --

FUTURE FEDERAL FUNDING -- CO-OP PROGRAMS IN ENGINEERING TECHNOLOGY EDUCATION -- CONCERNS FOR THE FUTURE -- RECOMMENDATIONS. -- 6 Accreditation, Certification, and Licensing -- ACCREDITATION AND RECOGNITION OF QUALITY -- LICENSING AND CERTIFICATION -- RECOMMENDATIONS -- 7 Manpower Considerations. -- ENROLLMENT -- DEGREES -- INSTITUTIONS AND PROGRAMS -- RECOMMENDATION -- 8 The Impact of High Technology. -- EDUCATIONAL TECHNOLOGY AND HIGH-TECH EQUIPMENT -- LACK OF SOFTWARE -- HIGH-TECH LAB EQUIPMENT PROBLEMS -- RECOMMENDATIONS -- 9 Allocating Resources for Engineering Technology Education. -- PLANNING -- BASES FOR RESOURCE ALLOCATION -- LOW-TECHNOLOGY AREAS -- Precision Measurement -- Welding. -- Foundry -- Building Construction-Carpentry -- Internal Combustion Engines -- HIGH-TECHNOLOGY AREAS -- Printed Circuits. -- Physics Laboratory -- Computer Center Facilities -- Computer Hardware Technology -- Numerically Controlled Machining -- CONCLUSIONS. -- RECOMMENDATIONS -- Notes.

Sommario/riassunto

Both sides of the engineering equation--education and utilization--are studied in this unique volume. A brief discussion of the development of engineering in the United States is followed by an examination of the status of engineering today. A specially developed flow diagram, which defines all aspects of the current engineering community, demonstrates how the profession adapts and responds to change. The book then takes a critical look at the strengths and weaknesses of current engineering and evaluates major trends in the composition of the engineering work force. The final section offers a preview of engineering and its environment in the year 2000. Companion volumes in the Engineering Education and Practice in the United States series listed below discuss specific issues in engineering education.
