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Autore	Heywood John <1930->
Titolo	Engineering education : research and development in curriculum and instruction // John Heywood
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley-Interscience, , 2005 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2005]
ISBN	1-280-31134-7 9786610311347 0-470-32574-7 0-471-74469-7 0-471-74468-9
Descrizione fisica	1 online resource (515 p.)
Disciplina	620.0071/1 620.00711
Soggetti	Engineering - Study and teaching (Higher) Technology - Study and teaching (Higher)
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 indexes.
Nota di contenuto	Curriculum design, implementation and evaluation -- Aims and objectives (outcomes) -- Philosophy and sociology and the aims of the engineering curriculum -- Concepts and principles -- Learning strategies and styles -- Human development -- Curriculum change and changing the curriculum -- Interdisciplinary and integrated studies -- From projects to problem-based learning -- Problem solving-- Creativity -- Design -- Cooperative learning and teamwork -- Other instructional practices and the new technologies -- Assessment and evaluation -- The formal assessment of student learning : alternative assessment -- Attrition and retention.
Sommario/riassunto	A synthesis of nearly 2,000 articles to help make engineers better educators While a significant body of knowledge has evolved in the field of engineering education over the years, much of the published information has been restricted to scholarly journals and has not found a broad audience. This publication rectifies that situation by reviewing the findings of nearly 2,000 scholarly articles to help engineers become

better educators, devise more effective curricula, and be more effective leaders and advocates in curriculum and research development. The author's first objective is to provide an illustrative review of research and development in engineering education since 1960. His second objective is, with the examples given, to encourage the practice of classroom assessment and research, and his third objective is to promote the idea of curriculum leadership. The publication is divided into four main parts: * Part I demonstrates how the underpinnings of education---history, philosophy, psychology, sociology---determine the aims and objectives of the curriculum and the curriculum's internal structure, which integrates assessment, content, teaching, and learning * Part II focuses on the curriculum itself, considering such key issues as content organization, trends, and change. A chapter on interdisciplinary and integrated study and a chapter on project and problem-based models of curriculum are included * Part III examines problem solving, creativity, and design * Part IV delves into teaching, assessment, and evaluation, beginning with a chapter on the lecture, cooperative learning, and teamwork The book ends with a brief, insightful forecast of the future of engineering education. Because this is a practical tool and reference for engineers, each chapter is self-contained and may be read independently of the others. Unlike other works in engineering education, which are generally intended for educational researchers, this publication is written not only for researchers in the field of engineering education, but also for all engineers who teach. All readers acquire a host of practical skills and knowledge in the fields of learning, philosophy, sociology, and history as they specifically apply to the process of engineering curriculum improvement and evaluation.

2. Record Nr.	UNINA9910830047603321
Titolo	Clover science and technology / / N. L. Taylor, editor
Pubbl/distr/stampa	Madison, Wisconsin : , : American Society of Agronomy : , : Crop Science Society of America : , : Soil Science Society of America, , 1985
ISBN	0-89118-218-7
Descrizione fisica	1 online resource (xx, 616 pages)
Collana	Agronomy ; ; Number 25
Disciplina	633.32
Soggetti	Clover
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia