1. Record Nr. UNINA9910453890203321

Titolo	Academic nursing practice [[electronic resource]] : [helping to shape the future of healthcare] / / Lois K. Evans, Norma M. Lang, editors
Pubbl/distr/stampa	New York, NY, : Springer Pub., c2004
ISBN	1-281-81121-1 9786611811211 0-8261-2045-8
Descrizione fisica	1 online resource (299 p.)
Collana	Springer series on the teaching of nursing
Altri autori (Persone)	EvansLois K LangNorma M
Disciplina	610.73/071/1
Soggetti	Nursing - Study and teaching - United States Nursing - United States - Quality control Electronic books.
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	Contents; List of Figures and Tables; Contributors; Preface; Part I: The Mission of Academic Nursing Practice: Melding Research, Education, and Clinical Care; 1 A Vision and a Plan for Academic Nursing Practice; 2 Academic Nursing Practice: Looking Back; 3 Academic Nursing Practice Models and Related Strategic Issues; 4 Strategic Planning for Academic Nursing Practice: The Consultants' View; 5 Making Academic Nursing Practice Work in Universities: Structure, Function, and Synergy; Part II: Resources and Strategies for Implementing Academic Practice 6 Strategies for Securing Business Expertise, Financial Support, and Visibility7 Infrastructure to Support Academic Nursing Practice; 8 Clinical Information Systems in Support of Academic Practice, Research Education; 9 Integrating Research and Practice; 10 Establishing an Evidence Base in Academic Practice: The Role of the Clinician-Educator Faculty; 11 Community-Academic Partnerships; 12 Building Alliances: A Survival Strategy; 13 Building a Critical Mass: The Penn Macy Initiative; Looking Back; Index; A; B; C; D; E; F; G; H; I; J; K; L; M; N; O; P; Q; R; S; T; U; V; W
Sommario/riassunto	Winner of an AJN Book of the Year Award!. Academic Nursing Practice

	can be a living laboratory that integrates the education, practice, and research mission of a school of nursing. Where better to demonstrate the efficacy of new practice models and interventions, identify questions for further study, teach students, and keep faculty skills fresh?. This book describes how to develop and implement these nurse-managed practices, based on the extensive experience of the University of Pennsylvania School of Nursing, along with case examples from other programs. Practical strategies described includ

2.	Record Nr.	UNINA9910299892203321
	Autore	Zohdi Tarek I
	Titolo	Modeling and Simulation of Functionalized Materials for Additive Manufacturing and 3D Printing: Continuous and Discrete Media : Continuum and Discrete Element Methods / / by Tarek I. Zohdi
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
	ISBN	3-319-70079-0
	Edizione	[1st ed. 2018.]
	Descrizione fisica	1 online resource (XIX, 298 p. 83 illus., 34 illus. in color.)
	Collana	Lecture Notes in Applied and Computational Mechanics, , 1613-7736 ; ; 60
	Disciplina	670.113
	Soggetti	Manufactures Manufacturing, Machines, Tools, Processes
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references at the end of each chapters.
	Nota di contenuto	From the Content: Introduction: Additive/3D Printing Materials-filaments, Functionalized-inks and Powders.- PART I-Continuum Methods (CM) : Basic Continuum Mechanics -- CM Approaches: Characterization of Particle-functionalized Materials -- CM Approaches: Estimation and Optimization of the Effective Properties of Mixtures.- CM Approaches: Numerical thermo-mechanical Formulations.
	Sommario/riassunto	Within the last decade, several industrialized countries have stressed the importance of advanced manufacturing to their economies. Many of these plans have highlighted the development of additive

manufacturing techniques, such as 3D printing which, as of 2018, are still in their infancy. The objective is to develop superior products, produced at lower overall operational costs. For these goals to be realized, a deep understanding of the essential ingredients comprising the materials involved in additive manufacturing is needed. The combination of rigorous material modeling theories, coupled with the dramatic increase of computational power can potentially play a significant role in the analysis, control, and design of many emerging additive manufacturing processes. Specialized materials and the precise design of their properties are key factors in the processes. Specifically, particle-functionalized materials play a central role in this field, in three main regimes: (1) to enhance overall filament-based material properties, by embedding particles within a binder, which is then passed through a heating element and the deposited onto a surface, (2) to “functionalize” inks by adding particles to freely flowing solvents forming a mixture, which is then deposited onto a surface and (3) to directly deposit particles, as dry powders, onto surfaces and then to heat them with a laser, e-beam or other external source, in order to fuse them into place. The goal of these processes is primarily to build surface structures which are extremely difficult to construct using classical manufacturing methods. The objective of this monograph is introduce the readers to basic techniques which can allow them to rapidly develop and analyze particulate-based materials needed in such additive manufacturing processes. This monograph is broken into two main parts: “Continuum Method” (CM) approaches and “Discrete Element Method” (DEM) approaches. The materials associated with methods (1) and (2) are closely related types of continua (particles embedded in a continuous binder) and are treated using continuum approaches. The materials in method (3), which are of a discrete particulate character, are analyzed using discrete element methods.