

1. Record Nr.	UNISA996388843003316
Autore	Littleton Edward <b. 1626.>
Titolo	Observations upon the warre of Hungary [[electronic resource]]
Pubbl/distr/stampa	London, : Printed, and are to be sold by Randall Taylor, 1689
Descrizione fisica	[8], 47 p
Soggetti	Austro-Turkish War, 1683-1699 Hungary History, Military
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Attributed to Edward Littleton, of All Souls'. Cf. Halkett & Laing. Reproduction of original in Huntington Library.
Sommario/riassunto	eebo-0113

2. Record Nr.	UNINA9910797363803321
Titolo	Directed self-assembly of block co-polymers for nano-manufacturing / / edited by Roel Gronheid and Paul Nealey
Pubbl/distr/stampa	Amsterdam, Netherlands : , : Woodhead Publishing, , 2015 ©2015
ISBN	0-08-100261-0 0-08-100250-5
Descrizione fisica	1 online resource (328 p.)
Collana	Woodhead Publishing series in electronic and optical materials ; ; Number 83
Disciplina	547.84
Soggetti	Block copolymers Self-assembly (Chemistry) Nanomanufacturing
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 at the end of each chapters and index.
Nota di contenuto	Front Cover; Directed Self-assembly of Block Copolymers for Nano- manufacturing; Copyright; Contents; List of contributors; Woodhead Publishing Series in Electronic and Optical Materials; Part One: Physics and chemistry of block copolymer (BCP) materials ; Chapter 1: Physics of block copolymers from bulk to thin films; 1.1 . Introduction; 1.2 . Order-disorder transition of block copolymers; 1.2.1 . Disordered state; 1.2.2 . Weak segregation limit in ordered state; 1.2.3 . Strong segregation limit in ordered state; 1.2.4 . Phase diagram obtained by using self-consistent field theory 1.3 . Morphologies of diblock copolymer/homopolymer mixtures1.4 . Dynamics of phase transition in block copolymers; 1.5 . Structures of block copolymer in thin films; 1.5.1 . Free energy of block copolymer thin film; 1.5.2 . Effect of surface energy term; F surface ; 1.5.3 . Effect of bulk energy term F bulk ; 1.6 . Conclusion; References; Chapter 2: RAFT synthesis of block copolymers and their self-assembly properties; 2.1 . RAFT process description; 2.2 . Polymerization process details; 2.2.1 . In situ process analysis; 2.3 . RAFT end-group catalytic radical reduction

2.4 . Block Copolymer In situ Topcoat Applications
 2.5 . DSA Applications;
 2.6 . High chi block copolymers;
 2.7 . Conclusions; Acknowledgments; References;
 Chapter 3: Thermal and solvent annealing of block copolymer films;
 3.1 . Introduction;
 3.2 . Thermal annealing of BCPs films;
 3.2.1 . Fundamental consideration;
 3.2.2 . Film thickness effect and temperature gradient;
 3.2.3 . Crystallization behavior induced by thermal annealing;
 3.3 . Solvent annealing of BCPs films;
 3.3.1 . Fundamental consideration;
 3.3.2 . Factors affecting the annealing process
 3.3.3 . Combination of solvent annealing and thermal annealing
 3.4 . Summary and outlook; References;
 Chapter 4: Field-theoretic simulations and self-consistent field theory for studying block copolymer directed self-assembly;
 4.1 Introduction;
 4.2 Overview of field-theory-based simulations of block copolymer DSA;
 4.3 Chemoepitaxy modeling;
 4.4 Graphoepitaxy modeling;
 4.4.1 Cylinders in a rectangular trench;
 4.4.2 Contact hole shrink;
 4.5 Summary and outlook; References;
 Part Two: Templates and patterning for directed self-assembly
 Chapter 5: Directed self-oriented self-assembly of block copolymers using topographical surfaces
 5.1 . Introduction;
 5.2 . Control of interfacial interactions;
 5.3 . Graphoepitaxy;
 5.3.1 . Fabrication of topographical surfaces;
 5.3.2 . Geometry with deep patterning;
 5.3.2.1 . Deep trench surfaces;
 5.3.2.2 . Post surfaces;
 5.3.2.3 . Other surfaces;
 5.3.3 . Geometry with minimal patterning;
 5.3.3.1 . Faceted surfaces;
 5.3.3.2 . Shallow trench surfaces;
 5.4 . Application of BCPs guided by topographical surfaces;
 5.5 . Summary and outlook; References
 Chapter 6: Directed self-oriented self-assembly of block copolymers using chemically modified surfaces

Sommario/riassunto

The directed self-assembly (DSA) method of patterning for microelectronics uses polymer phase-separation to generate features of less than 20nm, with the positions of self-assembling materials externally guided into the desired pattern. Directed self-assembly of Block Co-polymers for Nano-manufacturing reviews the design, production, applications and future developments needed to facilitate the widescale adoption of this promising technology. Beginning with a solid overview of the physics and chemistry of block copolymer (BCP) materials, Part 1 covers the synthesis of new materials and new

3.	Record Nr.	UNINA9910898169903321
	Titolo	Forschung & Lehre : Mitteilungen des Deutschen Hochschulverbandes
	Pubbl/distr/stampa	Bonn, : Der Hochschulverband, 1994-
	Descrizione fisica	1 online resource
	Disciplina	378.43/05
	Soggetti	Education, Higher - Germany Education, Higher Periodicals. Germany
	Lingua di pubblicazione	Tedesco
	Formato	Materiale a stampa
	Livello bibliografico	Periodico
	Note generali	Title from cover.
4.	Record Nr.	UNINA9910300426303321
	Autore	Kuehn Kerry
	Titolo	A Student's Guide Through the Great Physics Texts : Volume II: Space, Time and Motion / / by Kerry Kuehn
	Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2015
	ISBN	1-4939-1366-2
	Edizione	[1st ed. 2015.]
	Descrizione fisica	1 online resource (XXVI, 380 p. 79 illus., 1 illus. in color.)
	Collana	Undergraduate Lecture Notes in Physics, , 2192-4791
	Disciplina	523.01
	Soggetti	Physics Philosophy and science Science - Study and teaching Cosmology History and Philosophical Foundations of Physics Philosophy of Science Science Education
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia

Note generali	Note from the prefaces in the first and second volumes: "This four-volume book grew from a four-semester general physics curriculum which I developed and taught for the past decade to undergraduate students at Wisconsin Lutheran College in Milwaukee."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Scaling in Art and Nature -- The Coherence of Substances -- Archimedes' Principle and Falling Bodies -- Falling Bodies and Pendular Motion -- Pendular Motion and Harmony -- The Law of the Lever -- Beams, Bones and Giants -- Naturally Accelerated Motion -- The Mean Speed Theorem -- Equilibrium, Force and Acceleration -- From Conic Sections to Projectile Motion -- The Speed and Force of a Projectile -- Reason, Authority and Science -- Pascal's Principle -- Submerged Bodies -- Syringes, Siphons and Suckling Infants -- Life Under a Sea of Air -- Does Nature Abhor a Vacuum? -- Mass, Momentum and Force -- Absolute and Relative Motion -- Newton's Laws of Motion -- Conservation of Momentum -- The Third Law and the Power of Machines -- Centripetal Force and Acceleration -- Newton's Rules of Reasoning -- Planetary Motion -- Universal Gravitation -- Hypothesis and Natural Theology -- The Principle of Relativity -- The Absolute Speed of Light -- Lorentz Transformations -- Relativistic Energy and Minkowski Space.
Sommario/riassunto	This book provides a chronological introduction to the science of motion and rest based on the reading and analysis of significant portions of Galileo's Dialogues Concerning Two New Sciences, Pascal's Treatise on the Equilibrium of Fluids and the Weight of the Mass of Air, Newton's Mathematical Principles of Natural Philosophy, and Einstein's Relativity. Each chapter begins with a short introduction followed by a reading selection. Carefully crafted study questions draw out key points in the text and focus the reader's attention on the author's methods, analysis and conclusions. Numerical and laboratory exercises at the end of each chapter test the reader's ability to understand and apply key concepts from the text. Space, Time and Motion is the second of four volumes in A Student's Guide through the Great Physics Texts. This book grew out of a four-semester undergraduate physics curriculum designed to encourage a critical and circumspect approach to natural science, while at the same time preparing students for advanced coursework in physics. This book is particularly suitable as a college-level textbook for students of the natural sciences, history or philosophy. It also serves as a textbook for advanced high-school students, or as a thematically-organized source-book for scholars and motivated lay-readers. In studying the classic scientific texts included herein, the reader will be drawn toward a lifetime of contemplation.