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Titolo	Graphene : an introduction to the fundamentals and industrial applications / / Madhuri Sharon and Maheshwar Sharon
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Descrizione fisica	1 online resource (317 p.)
Collana	Advanced Material Series
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Disciplina	662/.9
Soggetti	Graphene - Industrial applications Graphene
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	Cover; Title Page; Copyright Page; Contents; Foreword; Preface; 1 The History of Graphene; 2 Structure and Properties of Graphene; 2.1 The Structure of Graphene; 2.1.1 Carbon; 2.1.2 Graphite; 2.1.3 Graphene; 2.1.3.1 Bilayer Graphene; 2.1.4 Graphane; 2.1.5 Graphone; 2.2 Disorder in Graphene Structure; 2.2.1 Ripples; 2.2.2 Topological Defects; 2.2.3 Ad-Atom (OR "ADSORBED ATOM"); 2.2.4 Cracks or Fractures in Graphene; 2.3 Properties of Graphene; 2.3.1 Mechanical Properties; 2.3.2 Thermal Properties; 2.3.3 Optical Properties; 2.3.4 Chemical Stability and Reactivity 2.3.5 The Intriguing Electronic Properties (Dirac Point)2.3.6 Semiconductor Properties; 2.4 Summary; 3 Nanographene and Carbon Quantum Dots (C-Dots); 3.1 Nanographene; 3.1.1 Structure of Nanographene; 3.1.2 Properties of Nanographene; 3.1.3 Fabrication of Nanographene; 3.1.3.1 Physical Methods; 3.1.3.2 Chemical Methods; 3.1.4 Applications of Nanographene; 3.2 Graphene Quantum Dots or Carbon Dots; 3.2.1 Structure of Carbon Dots; 3.2.2 Properties of Carbon Dots; 3.2.2.1 Optical Properties; 3.2.2.2 Photocatalytic Properties; 3.2.2.3 Chemical Inertness; 3.2.2.4 Water Solubility

3.2.3 Fabrication of Carbon Dots 3.2.3.1 Electrochemical Methods; 3.2.3.2 Combustion, Thermal, Hydrothermal and Acidic Oxidation of Carbon Precursors; 3.2.3.3 Pulsed Laser Irradiation of Carbon Source; 3.2.3.4 Laser Ablation of Graphite; 3.2.3.5 Arc Discharge Method; 3.2.3.6 Plasma Treatment Method; 3.2.3.7 Opening of Fullerene Cage; 3.2.3.8 Ultrasonic-/Microwave-Assisted Synthesis; 3.2.3.9 Chemical Methods; 3.2.3.10 Supported Synthetic Procedure; 3.2.3.11 Biogenic Synthesis; 3.2.4 Applications of Carbon Dots; 3.2.4.1 Sensor Designing; 3.2.4.2 Bioimaging; 3.2.4.3 Drug Delivery
3.2.4.4 Optoelectronics and In Vivo Biosensing Applications 3.2.4.5 Photocatalysis; 3.2.4.6 SERS; 3.2.4.7 Health and Bio-Related Applications; 3.3 Conclusions; 4 Identification and Characterization of Graphene; 4.1 Introduction; 4.2 Microscopic Methods; 4.2.1 SEM, STM and TEM Characterization of Graphene; 4.2.2 AFM Characterization of Graphene; 4.3 Spectroscopic Methods; 4.3.1 Raman Spectroscopic Analysis of Graphene; 4.3.2 FTIR Analysis of Graphene; 4.3.3 UV-Vis Spectroscopic Analysis of Graphene; 4.3.4 XRD Analysis of Graphene; 4.3.5 XPS of Graphene; 4.3.6 NMR Analysis of Graphene
4.3.7 DLS of Graphene 4.3.8 DPI of Graphene; 4.4 Optical Property Analysis; 4.4.1 Optical Absorption and Nonlinear Kerr Effect; 4.4.2 Photoluminescence/Blue-Photoluminescence; 4.4.3 Optical Band Gap; 4.5 Measurement of Mechanical Properties; 4.5.1 Young's Modulus; 4.5.2 Poisson's Ratio; 4.5.3 Bulge Test; 4.5.4 Tensile Testing/Tension Testing; 4.5.5 Gas Leak Rates in Graphene Membranes; 4.6 Thermal Properties and Thermal Effect Analysis; 4.6.1 Thermal Conductivity; 4.6.2 TGA and Thermal Stability; 4.7 Characterization of Electrical Properties; 4.7.1 Electronics; 4.7.2 Electron Transport
4.7.3 Electrochemical Redox

Sommario/riassunto

"Often described as a 'miracle material', graphene's potential applications are extraordinary, ranging from nanoscale 'green' technologies, to sensors and future conductive coatings. This book covers the topic of 'graphene' -- the history, fundamental properties, methods of production and applications of this exciting new material. The style of the book is both scientific and technical -- it is accessible to an audience that has a general, undergraduate-level background in the sciences or engineering, and is aimed at industries considering graphene applications. As the graphene topic is a broad-reaching and rapidly moving field of research, the aim of this book is therefore to provide information about graphene and its current and future applications that are immediately implementable, relevant and concise. After reading this book, the reader will have sufficient knowledge and background to move forward independently into graphene R&D and to apply the knowledge therein. Although the book will be self-contained, each chapter has copious references to enable further reading, research and exploration of the chapter topics"--

2. Record Nr.	UNINA9910781601003321
Autore	Wynn Thomas
Titolo	How to think like a Neandertal [[electronic resource] /] / by Thomas Wynn and Frederick L. Coolidge
Pubbl/distr/stampa	Oxford ; New York, : Oxford University Press, c2011
ISBN	0-19-991233-5 1-283-34910-8 9786613349101 0-19-987663-0
Descrizione fisica	1 online resource (223 p.)
Classificazione	PSY008000SOC002000SCI027000
Altri autori (Persone)	CoolidgeFrederick L <1948-> (Frederick Lawrence)
Disciplina	569.9/86
Soggetti	Neanderthals Social archaeology Ethnopsychology Cognition and culture Human evolution
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	Cover; Contents; 1. True Grit; 2. The Caveman Diet; 3. Zen and the Art of Spear Making; 4. A Focus on Family; 5. It's Symbolic; 6. Speaking of Tongues; 7. A Neandertal Walked into a Bar . . .; 8. To Sleep, Perchance to Dream; 9. You've Got Personality; 10. Thinking Like a Neandertal; Glossary; A; B; C; D; E; F; G; H; I; J; K; L; M; N; O; P; R; S; T; U; W; Index; A; B; C; D; E; F; G; H; I; J; K; L; M; N; O; P; R; S; T; U; V; W; X; Y
Sommario/riassunto	There have been many books, movies, and even TV commercials featuring Neandertals--some serious, some comical. But what was it really like to be a Neandertal? How were their lives similar to or different from ours? In <i>How to Think Like a Neandertal</i> , archaeologist Thomas Wynn and psychologist Frederick L. Coolidge team up to provide a brilliant account of the mental life of Neandertals, drawing on the most recent fossil and archaeological remains. Indeed, some Neandertal remains are not fossilized, allowing scientists to recover samples of their genes--one specimen had the gene for red hair and

3. Record Nr.	UNINA9910132601903321
Autore	Combessie Philippe
Titolo	Durkheim, Fauconnet et Foucault : etayer une perspective abolitionniste a l'heure de la mondialisation des echanges // Philippe Combessie
Pubbl/distr/stampa	Chicoutimi, Quebec : , : J.-M. Tremblay, , 2008
ISBN	1-4123-6413-2
Descrizione fisica	1 online resource (320 pages)
Collana	Classiques des sciences sociales ; ; Number 3338
Disciplina	322.440973
Soggetti	Abolitionist Civilization Perspective
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia