1. Record Nr. UNINA9910230058803321

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| Autore | Rogers, David F. |
| Titolo | Mathematical elements for computer graphics / David F. Rogers, J. Alan Adams |
| Pubbl/distr/stampa | New York [etc] : McGraw Hill, c1976 |
| ISBN | 0070535272 |
| Descrizione fisica | XI, 239 p. : ill. ; 24 cm |
| Altri autori (Persone) | Adams, James Alan |
| Disciplina | 621.38153 |
| Locazione | DINED |
| Collocazione | II 126 |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |

2. Record Nr. UNINA9910886994203321

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|---|---|
| Titolo | Diagrammatic Representation and Inference : 14th International Conference, Diagrams 2024, Münster, Germany, September 27 – October 1, 2024, Proceedings / / edited by Jens Lemanski, Mikkel Willum Johansen, Emmanuel Manalo, Petrucio Viana, Reetu Bhattacharjee, Richard Burns |
| Pubbl/distr/stampa | Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024 |
| ISBN | 9783031712913<br>3031712919 |
| Edizione | [1st ed. 2024.] |
| Descrizione fisica | 1 online resource (497 pages) |
| Collana | Lecture Notes in Artificial Intelligence, , 2945-9141 ; ; 14981 |
| Disciplina | 006.6 |
| Soggetti | Artificial intelligence<br>User interfaces (Computer systems)<br>Human-computer interaction<br>Data structures (Computer science)<br>Information theory<br>Computer programming<br>Compilers (Computer programs)<br>Computer science<br>Artificial Intelligence<br>User Interfaces and Human Computer Interaction<br>Data Structures and Information Theory<br>Programming Techniques<br>Compilers and Interpreters<br>Theory of Computation |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | -- Keynote Talks. -- How can we make trustworthy AI?. -- A dialogical account of diagrams in mathematical proofs. -- Where Diagrams Come From. -- Analysis of Diagrams. -- Diagrams and their role in economics as problem-solving devices and knowledge-improving tools. The case of the Phillip Machine. -- Why Feynman |

Diagrams Are Worth 10,000 formulas: A Representational Epistemic Analysis. -- 12 questions, 19 visual encoding techniques, and 101 types of visualization – each described by a systematically generated sentence. -- Domain-Specific Rules Override Aesthetic Graph Drawing Criteria: An Exploration of User-Generated Diagrams. -- Generating Qualitative Descriptions of Diagrams with a Transformer-based Language Model. -- Diagram Control and Model Order for Sugiyama Layouts. -- B42: the Geometry of 4-Valued Contradiction. -- A Way Diagrams Explain: Analysis Based on Consequence Matching. -- Euler Diagrams, Aristotelian Diagrams and Syllogistics. -- What Does it Mean that Diagrams Represent Constructions?. -- The Topology of Assertion: A Diagrammatic Rationale for Our Enduring Love of Truth. -- Schopenhauer's Sorites Diagram. -- Category Theory for Aristotelian Diagrams: The Debate on Singular Propositions. -- Euler and Venn Diagrams. -- Rectangular Euler Diagrams and Order Theory. -- Reference by Occurrence. -- EulerMerge: Simplifying Euler Diagrams Through Set Merges. -- Representing uncertainty with expanded Ueberweg diagrams. -- Indeterminate set space diagrams. -- Can Euler Diagrams Improve Syllogistic Reasoning in Large Language Models?. -- Diagrams in Logic. -- Mozi's Square of Opposition and Logemes as New Logical Approach. -- Implicational Existential Graphs. -- Aristotelian Diagrams as Logic Diagrams. -- Sentence Negation and Term Negation as Syntactic Operations in Diagram Logic. -- Playing Games with Diagrams: Truth Diagrams and Game Semantics. -- Peirce' s extended Euler diagrams and the system AtI based on Ladd-Franklin' s exclusion relations. -- Diagrams and Applications. -- Anxiety Moderates the Effects of Drawing Support on Drawing Accuracy in Mathematical Modeling. -- Learning magnitude of energy consumption with symbolic or iconic representations. -- Designing a Mind-Mapping-Assisted Comparative Literature Course in Chinese Academic Settings. -- Integration of Learning Through the Use of Self-Constructed Diagrams: Opportunities and Challenges. -- Chinese Children' Drawing in Science Class. -- Diagram Tools. -- Hoop Diagrams: A Set Visualization Method. -- Building a large dataset of human-generated captions for science diagrams. -- KIELER: A Text-First Framework for Automatic Diagramming of Complex Systems. -- Historical Aspects of Diagrams. -- Drawing Technology: Sketches of Isambard Kingdom Brunel. -- On the Expressivity of Byzantine Diagrams in Logic. -- Posters. -- An Innovative Approach to Diagrams Representation: The Marlo Diagrams Web Page. -- Codifying Visual Representations. -- A diagram helping the mathematical problem solving procedure. -- Collaborative Graph-Document Composition Is Easy and Enhances Critical-Thinking Skills without Extra Cost. -- An eye-tracking study on the effects of using highlighted multi-attribute tables: A preliminary report. -- Spoiled Games: Mimesis & Phenomenology. -- The Region Connection Calculus, Euler Diagrams and Aristotelian Diagrams. -- Between pro/con-lists and argument graphs: Finding the right level of complexity in argumentation representation. -- Diagrammatic analogical reasoning.

Sommario/riassunto

This book constitutes the refereed proceedings of the 14th International Conference on the Theory and Application of Diagrams, Diagrams 2024, held in Münster, Germany, during September 27–October 1, 2024. The 17 full papers, 19 short papers and 11 papers of other types included in this book were carefully reviewed and selected from 69 submissions. They were organized in topical sections as follows: Keynote Talks; Analysis of Diagrams; Euler and Venn Diagrams; Diagrams in Logic; Diagrams and Applications; Diagram Tools; Historical Aspects of Diagrams; and Posters.

3. Record Nr. UNINA9910964892903321

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|---|---|
| Titolo | Diamond-like carbon films / / Yuto S. Tanaka, editor |
| Pubbl/distr/stampa | Hauppauge, N.Y., : Nova Science Publishers, c2012 |
| ISBN | 1-61324-909-8 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (219 p.) |
| Collana | Materials science and technologies |
| Altri autori (Persone) | TanakaYuto S |
| Disciplina | 667/.9 |
| Soggetti | Diamonds, Artificial<br>Diamond thin films |
| 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 | Intro -- DIAMOND-LIKE CARBON FILMS -- DIAMOND-LIKE CARBON FILMS -- Contents -- Preface -- Advanced Pulsed Arc Technique of Fabrication of DLC Films and Their Technical and Medical Applications -- 1. Design and Operating Principles of the Pulsed Plasma Source -- The Main Result of the DLC Film Deposition by Pulsed Arc Technique -- 2. Plasma Separation -- 3. Spectroscopic and Probe Diagnostics of Carbon Plasma -- 4. A Novel Combined PVD-CVD Method of DLC Film Depositing -- References -- Peculiarities of Ion-Beam Synthesis of Carbon-Based Phases -- Abstract -- 1. Introduction -- 2. The Principle of Structural Compliance at Phase Transformation under Ion Irradiation -- 3. Experimental Evidences of the Principle of Structural Compliance at Ion Synthesis of Carbon-Rich or other Bulk Phases -- 3.1. Carbon Phase with the Face-Centered Cubic Structure Formed under Irradiation of Graphite Films -- 3.2. Ion Synthesis of Silicon Carbide by Carbon Implantation in Si -- 3.3. Ion Synthesis of Al4C3, AlN and AlB Phases -- 4. Carbon and Carbon-Rich Nanophases -- Conclusion -- Acknowledgments -- References -- Electron Field Emission Properties of Nonmetal and Metal Doped Diamond Like Carbon -- 1. Abstruct -- 2. Introduction -- 2.1. Diamond Like Carbon (DLC) as a Material -- 2.2. Structure of DLC -- 2.3. Why also there is Interest in DLC -- 2.4. Difficulties of Pure DLC Material and how to over Come the Problems -- 3. Basic Theory of Electron Field Emission -- 4. Field Emission of DLC Thin Films -- 5. Synthesis and Field Emission of Metal and Nonmetal Doped DLC Thin Films -- 5.1. Synthesis and Electron Field Emission |

Property of Silicon Incorporated DLC (Si-DLC) Thin Films -- 5.2. Synthesis and Field Emission Property of Ag-DLC Thin Films -- 5.3. Synthesis and Study the Field Emission of Fluorine Doped (F-DLC) Thin Films -- Conclusion -- References.
Internal Stress of Hydrogenated  Diamond-Like Carbon Films -- Abstract -- 1. Internal Stress of Diamond-Like Carbon (DLC) Thin Film -- 1.1. Origin of the Internal Stress -- 1.2. Reduction in the Internal Stress -- 2. Internal Stress of DLC Thin Films Deposited by EBEP-CVD -- 2.1. EBEP-CVD System -- 2.2. Correlation between Deposition Parameters and Film Properties [32] -- 2.3. Correlations between Internal Stresses and Structural Properties [32] -- 2.4. Internal Stress Reduction by Silicon Incorporation [44] -- References -- Diamond-Like Carbon Films Improve their Properties with the Incorporation of Crystalline Diamond Particles -- Abstract -- Introduction -- Tribocorrosion -- Diamond-Like Carbon (DLC) -- Nanoparticle-Incorporated DLC Films -- The Synthesis Procedure of Crystalline Diamond-Incorporated DLC Films -- CD-DLC Film Characterization -- Electrochemical Tests -- Tribocorrosion -- Conclusion -- Acknowledgments -- References -- DLC Thin Films Growth in Thermionic Vacuum Arc Technologies: TVA and GTVA -- Abstract -- Introduction -- Experimental details -- Electrodes Configuration -- Results and Discussion -- Conclusions -- Acknowledgments -- References -- Hard Cr-Containing Diamond-Like Carbon Films in Mid-Frequency Dual-Magnetron Sputtering -- Abstract -- Section 1: Hard and Superhard Cr-Containing -- Diamond-Like Carbon Films -- 1. Introduction -- 2. Experimental Details -- 3. Results -- 4. Conclusion -- Section 2: Cr-Doped DLC Films in Three Mid-Frequency Magnetron Power Modes -- 1. Introduction -- 2. Experimental Details -- 3. Results -- 4. Conclusion -- Section 3: Preparation and Properties of -- Thick DLC Film -- 1. Introduction -- 2. Experimental Details -- 3. Results -- 4. Conclusion -- Section 4: Influence of Cr Content and Nanograin Size on Microstructure, Mechanical and Sliding Tribological Behavior of Hard Cr-DLC Films.
1. Introduction -- 2. Experimental Details -- 3. Results -- 4. Conclusion -- References -- A Diamond-Like Carbon Film Applied as an Alignment Layer for LCDs -- Abstract -- 1. Introduction -- 2. DLC Films Using Ion Beam or UV Light Non-Contact Alignment Process -- 2.1. Experiment -- 2.2. Results and Discussion -- 2.2.1. PECVD and Sputtered DLC Films -- 2.2.2. UV Photo-Alignment -- 2.2.3. Ion beam alignment -- 3. Novel DLC Films without Any Alignment Process -- 3.1. Experiments -- 3.2. Results and Discussion -- 3.2.1.Optical Characteristics -- 3.2.2. Electro-Optical Characteristics -- 3.2.3. DLC Film Conditions -- 3.2.4. LC Adsorbability to the DLC Film -- 4. Summary -- Acknowledgment -- References -- Index.

Sommario/riassunto

This book presents current research from across the globe in the study of diamond-like carbon films. Topics discussed include the peculiarities of ion-beam synthesis of carbon-based phases; electron field emission properties of non-metal and metal doped diamond like carbon; internal stress and its reduction of hydrogenated diamond-like carbon thin films deposited by plasma CVD methods; incorporating crystalline diamond particles in diamond-like carbon films to improve their properties and diamond-like carbon films applied as an alignment layer for LCDs.