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| 1. Record Nr.           | UNINA9910160286603321                                 |
| Autore                  | Goldstein Paul                                        |
| Titolo                  | Legal asylum : a comedy / / Paul Goldstein            |
| Pubbl/distr/stampa      | Chicago, Illinois : , : Ankerwycke, , [2017]<br>©2017 |
| ISBN                    | 1-63425-612-3                                         |
| Descrizione fisica      | 1 online resource (185 pages)                         |
| Soggetti                | Fictions (Law)                                        |
| Lingua di pubblicazione | Inglese                                               |
| Formato                 | Materiale a stampa                                    |
| Livello bibliografico   | Monografia                                            |
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| 2. Record Nr.           | UNINA9910792297303321                                                                                                                    |
| Autore                  | Wang Joseph                                                                                                                              |
| Titolo                  | Nanomachines [[electronic resource]] : fundamentals and applications /<br>/ Joseph Wang                                                  |
| Pubbl/distr/stampa      | Weinheim an der Bergstrasse, Germany, : Wiley-VCH, c2013                                                                                 |
| ISBN                    | 3-527-65145-4<br>3-527-65147-0<br>3-527-65148-9                                                                                          |
| Descrizione fisica      | 1 online resource (174 p.)                                                                                                               |
| Collana                 | New York Academy of Sciences                                                                                                             |
| Classificazione         | 549<br>620.5                                                                                                                             |
| Disciplina              | 620.5                                                                                                                                    |
| Soggetti                | Nanotechnology                                                                                                                           |
| Lingua di pubblicazione | Inglese                                                                                                                                  |
| Formato                 | Materiale a stampa                                                                                                                       |
| Livello bibliografico   | Monografia                                                                                                                               |
| Note generali           | Includes bibliographical references and index                                                                                            |
| Nota di bibliografia    | Includes bibliographical references at the end of each chapters and<br>index.                                                            |
| Nota di contenuto       | Cover; Related Titles; Title page; Copyright page; Contents; Preface; 1:<br>Fundamentals - Small-Scale Propulsion; 1.1 Introduction; 1.2 |

Nanomachines History; 1.3 Challenges to Nanoscale Propulsion; 1.4 Low Reynolds Number Hydrodynamics; References; 2: Motion of Natural Nanoswimmers; 2.1 Introduction; 2.2 Chemically Powered Motor Proteins; 2.2.1 Biological Motors: Active Workhorses of Cells; 2.2.2 Protein Motors: Basic Operation; 2.2.3 Kinesins; 2.2.4 Myosins; 2.2.5 Dyneins; 2.2.6 Biomotor-based Active Nanoscale Transport in Microchip Devices; 2.3 Rotary Biomotors; 2.4 Swimming Microorganisms

2.4.1 Bacterial Flagella - Escherichia coli; 2.4.2 Sperm Motility; 2.4.3 Cilia-Driven Swimming of Paramecium; 2.4.4 Bacteria Transporters and Actuators; References; 3: Molecular Machines; 3.1 Stimuli-Responsive Rotaxane, Pseudorotaxane, and Catenane Nanomachines; 3.2 Molecular Rotary Motors; 3.3 Light-Driven Molecular Machines based on cis-trans Photoisomerization; 3.3.1 Azobenzene-based Nanomachines; 3.4 Nanocars; 3.5 DNA Nanomachines; 3.5.1 Autonomous Enzyme-Assisted DNA Nanomachines; 3.5.2 DNA Spiders; 3.5.3 pH and Light Switchable DNA Machines; References

4: Self-Propelling Chemically Powered Devices

4.1 Self-Propelling Catalytic Nanowires; 4.1.1 Propulsion Mechanism of Catalytic Nanowire Motors; 4.1.2 Magnetically Directed Movement of Catalytic Nanowire Motors; 4.2 Catalytic Tubular Microengines; 4.2.1 Bubble-Propulsion Mechanism of Tubular Microengines; 4.2.2 Preparation of Tubular Microengines; 4.3 Catalytic Janus Microparticles: Spherical Motors; 4.3.1 Preparation of Catalytic Janus Particle Motors; 4.3.2 Propulsion Mechanisms of Catalytic Janus Spherical Motors; 4.4 Controlled Motion of Chemically Powered Nano/Microscale Motors

4.4.1 Thermally Controlled Nanomotors; 4.4.2 Light Control of Catalytic Motors; 4.4.3 Potential Control of Catalytic Motors; 4.5 Alternative Fuels for Chemically Powered Micro/Nanoscale Motors; 4.6 Collective Behavior: Toward Swarming and Chemotaxis; 4.6.1 Triggered Self-Organization of Microparticles; 4.6.2 Chemotaxis: Movement along Concentration Gradients; 4.7 Biocatalytic Propulsion; 4.8 Motion Based on Asymmetric Release of Chemicals; 4.9 Polymerization-Induced Motion; References; 5: Externally Powered Nanomotors - Fuel-Free Nanoswimmers; 5.1 Magnetically Driven Nanomotors

5.1.1 Helical Propellers; 5.1.2 Flexible Swimmers; 5.1.3 Surface Walkers; 5.1.4 Magnetically Actuated Artificial Cilia Array; 5.2 Electrically Driven Nanomotors; 5.2.1 Motion of Miniature Diodes; 5.2.2 Micromotors Driven by Bipolar Electrochemistry; 5.3 Ultrasound-Actuated Micromotors; 5.4 Light-Driven Micromotors; 5.5 Hybrid Nanomotors; References; 6: Applications of Nano/Microscale Motors; 6.1 Cargo Towing: Toward Drug Delivery; 6.1.1 Cargo-Loading Schemes; 6.1.2 Cargo Release Strategies; 6.1.3 Drug Delivery: Realizing the Fantastic Voyage Vision; 6.2 Biosensing and Target Isolation

6.2.1 Biomotor-Driven Sensing: Toward "Smart Dust" Devices

## Sommario/riassunto

This first-hand account by one of the pioneers of nanobiotechnology brings together a wealth of valuable material in a single source. It allows fascinating insights into motion at the nanoscale, showing how the proven principles of biological nanomotors are being transferred to artificial nanodevices. As such, the author provides engineers and scientists with the fundamental knowledge surrounding the design and operation of biological and synthetic nanomotors and the latest advances in nanomachines. He addresses such topics as nanoscale propulsions, natural biomotors, molecular-scale machines

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| 3. Record Nr.           | UNICAMPANIAVAN00293076                                                                                          |
| Autore                  | Giuliano, Massimo                                                                                               |
| Titolo                  | L'intelligenza artificiale tra autonomia negoziale e princípi dell'ordinamento italo-europeo / Massimo Giuliano |
| Pubbl/distr/stampa      | Napoli, : Edizioni scientifiche italiane, 2024                                                                  |
| ISBN                    | 978-88-495-5704-6                                                                                               |
| Descrizione fisica      | 435 p. ; 24 cm                                                                                                  |
| Lingua di pubblicazione | Italiano                                                                                                        |
| Formato                 | Materiale a stampa                                                                                              |
| Livello bibliografico   | Monografia                                                                                                      |