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| 1. Record Nr.           | UNINA9910830314403321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Autore                  | Landis Stefan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Titolo                  | Nano-lithography [[electronic resource] /] / edited by Stefan Landis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Edizione                | [1st edition]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Descrizione fisica      | 1 online resource (353 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Collana                 | ISTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Altri autori (Persone)  | LandisStefan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Disciplina              | 621.381531                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Soggetti                | Nanolithography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Note generali           | "Adapted and updated from La nanolithographie published 2010 in France by Hermes Science/Lavoisier"--t.p. verso.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Nota di bibliografia    | Includes bibliographical references and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Nota di contenuto       | Ch. 1. X-ray lithography : fundamentals and applications -- ch. 2. NanoImprint lithography -- ch. 3. Lithography techniques using scanning probe microscopy -- ch. 4. Lithography and manipulation based on the optical properties of metal nanostructures -- ch. 5. Patterning with self-assembling block copolymers -- ch. 6. Metrology for lithography.                                                                                                                                                                                                                                                               |
| Sommario/riassunto      | Lithography is an extremely complex tool - based on the concept of "imprinting" an original template version onto mass output - originally using relatively simple optical exposure, masking, and etching techniques, and now extended to include exposure to X-rays, high energy UV light, and electron beams - in processes developed to manufacture everyday products including those in the realms of consumer electronics, telecommunications, entertainment, and transportation, to name but a few. In the last few years, researchers and engineers have pushed the envelope of fields including optics, physics, |