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| Titolo                  | Laser printing of functional materials : 3D microfabrication, electronics and biomedicine // edited by Alberto Pique and Pere Serra  |
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| ISBN                    | 3-527-80513-3<br>3-527-80511-7<br>3-527-80510-9  |
| Edizione                | [1st edition]  |
| Descrizione fisica      | 1 online resource (473 pages) : illustrations  |
| Disciplina              | 621.366  |
| Soggetti                | Lasers - Industrial applications<br>Laser materials  |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Nota di bibliografia    | Includes bibliographical references at the end of each chapters and index.   |
| Sommario/riassunto      | The first book on this hot topic includes such major research areas as printed electronics, sensors, biomaterials and 3D cell printing. Well-structured and with a strong focus on applications, the text is divided in three sections with the first describing the fundamentals of laser transfer. The second provides an overview of the wide variety of materials that can be used for laser transfer processing, while the final section comprehensively discusses a number of practical uses, including printing of electronic materials, printing of 3D structures as well as large-area, high-throughput applications. The book is rounded off by a look at the future for laser printed materials. Invaluable reading for a broad audience ranging from material developers to mechanical engineers, from academic researchers to industrial developers and for those interested in the development of micro-scale additive manufacturing techniques. |