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| 1. | Record Nr.              | UNICAMPANIAVAN0035060  |
|    | Autore                  | Pozrikidis, Constantine  |
|    | Titolo                  | Introduction to theoretical and computational fluid dynamics / C. Pozrikidis   |
|    | Pubbl/distr/stampa      | New York ; Oxford, : Oxford University, 1997   |
|    | Titolo uniforme         | Introduction to theoretical and computational fluid dynamics   |
|    | ISBN                    | 01-950932-0-8  |
|    | Descrizione fisica      | X, 675 p. : ill. ; 25 cm   |
|    | Disciplina              | 532.05   |
|    | Lingua di pubblicazione | Inglese  |
|    | Formato                 | Materiale a stampa   |
|    | Livello bibliografico   | Monografia   |
| 2. | Record Nr.              | UNINA9910303438303321  |
|    | Autore                  | Chipouline Arkadi  |
|    | Titolo                  | Optical Metamaterials: Qualitative Models : Introduction to Nano-Optics and Optical Metamaterials / / by Arkadi Chipouline, Franko Küppers   |
|    | Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018  |
|    | ISBN                    | 3-319-77520-0  |
|    | Edizione                | [1st ed. 2018.]  |
|    | Descrizione fisica      | 1 online resource (XII, 318 p. 105 illus., 98 illus. in color.)  |
|    | Collana                 | Springer Series in Optical Sciences, , 0342-4111 ; ; 211   |
|    | Disciplina              | 620.106  |
|    | Soggetti                | Optical materials<br>Electronics - Materials<br>Optics<br>Electrodynamics<br>Nanotechnology<br>Lasers<br>Photonics<br>Microwaves<br>Optical engineering<br>Optical and Electronic Materials<br>Classical Electrodynamics<br>Optics, Lasers, Photonics, Optical Devices<br>Microwaves, RF and Optical Engineering |

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| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Nota di contenuto       | Phenomenological Electrodynamics of materials with negative dielectric and magnetic constants -- Homogenization of Maxwell equations – macroscopic and microscopic approaches -- Phenomenological vs multipole models -- Charge dynamics and dielectric/magnetic constants elaboration -- Plasmons/Polaritons -- Transmission of light through subwavelength structures -- Multipole approach for homogenization of metamaterials (MM) -- “Quantum” MM.  |
| Sommario/riassunto      | <p>This textbook bridges the gap between university courses on electrodynamics and the knowledge needed to successfully address the problem of electrodynamics of metamaterials. It appeals to both experimentalists and theoreticians who are interested in the physical basics of metamaterials and plasmonics. Focusing on qualitative fundamental treatment as opposed to quantitative numerical treatment, it covers the phenomena of artificial magnetization at high frequencies, and discusses homogenization procedures and the basics of quantum dynamics in detail. By considering different phenomena it creates a self-consistent qualitative picture to explain most observable phenomena. This allows readers to develop a better understanding of the concepts, and helps to create a conceptual approach, which is especially important in educational contexts. This clearly written book includes problems and solutions for each chapter, which can be used for seminars and homework, as well as qualitative models that are helpful to students. .</p> |