1. Record Nr. UNINA9910254617903321

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| Autore | Bosanac Slobodan Danko |
| Titolo | Electromagnetic Interactions / / by Slobodan Danko Bosanac |
| Pubbl/distr/stampa | Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2016 |
| ISBN | 9783662528785<br>3662528789 |
| Edizione | [1st ed. 2016.] |
| Descrizione fisica | 1 online resource (XI, 333 p. 47 illus., 10 illus. in color.) |
| Collana | Springer Series on Atomic, Optical, and Plasma Physics, , 1615-5653 ; ; 94 |
| Disciplina | 539.754 |
| Soggetti | Optics<br>Electrodynamics<br>Atoms<br>Physics<br>Lasers<br>Photonics<br>Microwaves<br>Optical engineering<br>Classical Electrodynamics<br>Atoms and Molecules in Strong Fields, Laser Matter Interaction<br>Optics, Lasers, Photonics, Optical Devices<br>Microwaves, RF and Optical Engineering |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Structure of molecules -- Electrodynamics -- Charge in electromagnetic wave -- Confinement of charge -- Controlling dynamics of a bound charge -- Atom in electromagnetic field -- Very short electromagnetic pulse -- Radiation by charge -- Field reaction -- Dynamics of single charge -- Dynamics of dipoles -- Level shifts. |
| Sommario/riassunto | This book is devoted to theoretical methods used in the extreme circumstances of very strong electromagnetic fields. The development of high power lasers, ultrafast processes, manipulation of electromagnetic fields and the use of very fast charged particles |

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| | interacting with other charges requires an adequate theoretical description. Because of the very strong electromagnetic field, traditional theoretical approaches, which have primarily a perturbative character, have to be replaced by descriptions going beyond them. In the book an extension of the semi-classical radiation theory and classical dynamics for particles is performed to analyze single charged atoms and dipoles submitted to electromagnetic pulses. Special attention is given to the important problem of field reaction and controlling dynamics of charges by an electromagnetic field. |

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| Record Nr. | UNINA9910918590803321 |
| Autore | K Valarmathi |
| Titolo | Artificial Intelligence and Digital Twin Technology : 1st International Conference, IconAIDTT 2023, Sivakasi, India, April 26-28, 2023, Proceedings |
| Pubbl/distr/stampa | Cham : , : Springer, , 2025<br>©2024 |
| ISBN | 9783031777998<br>3031777999 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (173 pages) |
| Collana | Communications in Computer and Information Science Series ; ; v.1972 |
| Altri autori (Persone) | ARamathilagam<br>SeeniSankarganesh<br>KoseUtku<br>HungBui Thanh<br>KottursamyKottilingam |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Sommario/riassunto | This book constitutes papers from the 1st International Conference on Artificial Intelligence and Digital Twin Technology, IconAIDTT 2023, held in Sivakasi, India, April 26-28, 2023.The 12 full papers and the 1 short paper included in this volume were carefully reviewed and |

selected from 41 submissions.