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| 1. Record Nr.           | UNINA9910571762703321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Titolo                  | Enrico Fermi's IEEE milestone in Florence : for his major contribution to semiconductor statistics, 1924-1926 // edited by Gianfranco Manes, Giuseppe Pelosi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Descrizione fisica      | 1 online resource (76 pages) : illustrations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Collana                 | I libri de "Il colle di Galileo" ; ; 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Disciplina              | 537.6225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Soggetti                | Semiconductors - Statistical methods<br>Gas dynamics - Mathematical models                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Nota di bibliografia    | Includes bibliographical references.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Nota di contenuto       | Preface / Luigi Dei -- Foreword / Enrico Del Re -- Introduction / Gianfranco Manes, Giuseppe Pelosi -- The IEEE Milestones Program / Ermanno Cardelli -- Part I Enrico Fermi and Semiconductor Electronics -- Enrico Fermi in Florence / Giuseppe Pelosi, Massimiliano Pieraccini, Stefano Selleri -- On the origin of Fermi-Dirac Statistics / Giuseppe Pelosi, Massimiliano Pieraccini -- From Fermi-Dirac Statistics to the Invisible Electronics / Gianfranco Manes -- The Role Played by Fermi Statistics in the Evolution of Micro- and Nanoelectronics / Giorgio Bacarani -- Part II On the Quantization of an Ideal Monoatomic Gas<br>Reproduction of the original papers, in Italian and German, by Enrico Fermi -- E. Fermi, Sulla quantizzazione del gas perfetto monoatomico, from «Atti dell'Accademia dei Lincei», vol. 3, no. 3, 1926, pp. 145-149 -- E. Fermi, Zur Quantelung des idealen einatomigen Gases, from «Zeitschrift fur Physik», vol. 36, no. 11-12, 1926, pp. 902-912 -- Acknowledgments -- The Authors. |
| Sommario/riassunto      | Enrico Fermi, Nobel Laureate in Physics in 1938, taught at the University of Florence just for two academic years (1924-25 and 1925-26). His research activity in these two years saw the publication of the statistics bearing his name (the two original 1926 papers by E. Fermi are reproduced in full in this book), which is at the basis of semiconductors, and hence of modern electronics. This volume is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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