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| Edizione                | [3rd ed.]   |
| Descrizione fisica      | 1 online resource (914 p.)  |
| Collana                 | Electrical engineering handbook   |
| Altri autori (Persone)  | PoularikasAlexander D. <1933->  |
| Disciplina              | 515/.723  |
| Soggetti                | Transformations (Mathematics)<br>Algorithms   |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Note generali           | Description based upon print version of record.   |
| Nota di bibliografia    | Includes bibliographical references and index.  |
| Nota di contenuto       | Front cover; Contents; Preface to the Third Edition; Editor; Contributors; Chapter 1. Signals and Systems; Chapter 2. Fourier Transforms; Chapter 3. Sine and Cosine Transforms; Chapter 4. Hartley Transform; Chapter 5. Laplace Transforms; Chapter 6. Z-Transform; Chapter 7. Hilbert Transforms; Chapter 8. Radon and Abel Transforms; Chapter 9. Hankel Transform; Chapter 10. Wavelet Transform; Chapter 11. Finite Hankel Transforms, Legendre Transforms, Jacobi and Gegenbauer Transforms, and Laguerre and Hermite Transforms; Chapter 12. Mellin Transform<br>Chapter 13. Mixed Time-Frequency Signal TransformationsChapter 14. Fractional Fourier Transform*; Chapter 15. Lapped Transforms; Chapter 16. Zak Transform; Chapter 17. Discrete Time and Discrete Fourier Transforms; Chapter 18. Discrete Chirp-Fourier Transform; Chapter 20. Empirical Mode Decomposition and the Hilbert-Huang Transform; |

Appendix A: Functions of a Complex Variable\*; Appendix B: Series and Summations; Appendix C: Definite Integrals; Appendix D: Matrices and Determinants; Appendix E: Vector Analysis; Appendix F: Algebra Formulas and Coordinate Systems; Index; Back cover

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Sommario/riassunto

Updating the original, *Transforms and Applications Handbook*, Third Edition solidifies its place as the complete resource on those mathematical transforms most frequently used by engineers, scientists, and mathematicians. Highlighting the use of transforms and their properties, this latest edition of the bestseller begins with a solid introduction to signals and systems, including properties of the delta function and some classical orthogonal functions. It then goes on to detail different transforms, including lapped, Mellin, wavelet, and Hartley varieties. Written by top

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