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	Autore	BRECHT, Bertolt
	Titolo	Prosa 3
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2.	Record Nr.	UNINA9910146291203321
	Autore	Dix Daniel Beach <1959->
	Titolo	Large-Time Behavior of Solutions of Linear Dispersive Equations / / by Daniel B. Dix
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1997
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	Descrizione fisica	1 online resource (XIV, 203 p.)
	Collana	Lecture Notes in Mathematics, , 1617-9692 ; ; 1668
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	Soggetti	Differential equations Mathematical analysis Fourier analysis Differential Equations Analysis Fourier Analysis
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	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Laplace expansions, outer regions -- Expansion in the inner region, Matching -- Uniformly Valid Expansions for large time -- Special

Results for Special Cases -- Applications: Self-similar asymptotic approximations; Sharp L_s decay estimates, Smoothing Effects; Asymptotic balance for large time; Asymptotic behavior for large x -- Reference -- Subject Index.

Sommario/riassunto

This book studies the large-time asymptotic behavior of solutions of the pure initial value problem for linear dispersive equations with constant coefficients and homogeneous symbols in one space dimension. Complete matched and uniformly-valid asymptotic expansions are obtained and sharp error estimates are proved. Using the method of steepest descent much new information on the regularity and spatial asymptotics of the solutions are also obtained. Applications to nonlinear dispersive equations are discussed. This monograph is intended for researchers and graduate students of partial differential equations. Familiarity with basic asymptotic, complex and Fourier analysis is assumed.
