

1. Record Nr.	UNINA9910706251903321
Autore	Leopold Luna B (Luna Bergere), <1915-2006, >
Titolo	The hydraulic geometry of stream channels and some physiographic implications / / by Luna B. Leopold and Thomas Maddock, Jr
Pubbl/distr/stampa	Washington : , : United States Department of the Interior, Geological Survey, , 1953
Descrizione fisica	1 online resource (vi, 57 pages) : illustrations
Collana	Geological Survey professional paper ; ; 252
Soggetti	River channels - Analysis Hydrodynamics Stream measurements Rivers Sedimentation and deposition
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Quantitative measurement of some of the hydraulic factors that help to determine the shape of natural stream channels: depth, width, velocity, and suspended load, and how they vary with discharge as simple power functions. Their interrelations are described by the term "hydraulic geometry"."
Nota di bibliografia	Includes bibliographical references (page 53) and index.

2. Record Nr.	UNINA9910983089003321
Autore	Babak Vitalii
Titolo	Noise signals : Modelling and Analyses / / by Vitalii Babak, Artur Zaporozhets, Yurii Kuts, Mykhailo Fryz, Leonid Scherbak
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-71093-2
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (232 pages)
Collana	Studies in Systems, Decision and Control, , 2198-4190 ; ; 567
Altri autori (Persone)	ZaporozhetsArtur KutsYurii FryzMykhailo ScherbakLeonid
Disciplina	621.3
Soggetti	Electrical engineering Signal processing Noise control Electrical and Electronic Engineering Digital and Analog Signal Processing Noise Control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Problems of Noise Signals Research -- Chapter 2. Linear Models of Stochastic Noise Signals -- Chapter 3. Periodic Models of Noise Signals -- Chapter 4. Method of Envelope and Phase in the Tasks of Identification of Narrowband Noise Signals -- Chapter 5. Identification of Vibration Noise Signals of Electric Power Facilities -- Chapter 6. Examples of Stochastic Noise Signals Identification -- Chapter 7. Identification of Air Pollution Sources.
Sommario/riassunto	The book meticulously details a constructive mathematical model of a stochastic noise process, specifically a linear random process and its characteristics. Theoretical reasoning on the relationship between random processes with independent increments and those with independent values, known as random processes of white noise, is provided. The model of a linear random process serves as a mathematical representation of colored noises in various hues.

Characteristics of both non-stationary and stationary linear random processes are elucidated, with emphasis on their ergodic properties, crucial for practical applications. The study also encompasses the vector linear random process, portraying a model of multi-channel noise signals. A novel contribution to the theory of random functions is the development of a constructive model of a conditional linear random process. This involves determining its distribution laws in the form of a characteristic function and relevant statistical characteristics, which can serve as potential indicators for identifying stochastic noise processes. The book revisits research on periodic stochastic models, examining cyclic, rhythmic, natural, and artificial phenomena, processes, and signals. A comprehensive analysis of the linear periodic random process is conducted, and the identification characteristics of periodic models of stochastic noise signals are explored. Significant attention is directed toward employing contour and phase methods as a theoretical foundation for addressing narrow-band noise signal identification challenges.
