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Titolo	Jute Geotextiles and their Applications in Civil Engineering / / by Tapobrata Sanyal
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ISBN	981-10-1932-0
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XXIII, 218 p. 83 illus., 38 illus. in color.)
Collana	Developments in Geotechnical Engineering, , 2364-5156
Disciplina	624.15
Soggetti	Engineering geology
	Engineering—Geology
	Foundations
	Hydraulics
	Textile industry
	Structural materials
	Geotechnical engineering
	Building materials
	Ceramics
	Glass
	Composites (Materials)
	Composite materials
	Geoengineering, Foundations, Hydraulics
	Textile Engineering
	Structural Materials
	Geotechnical Engineering & Applied Earth Sciences
	Building Materials
	Ceramics, Glass, Composites, Natural Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Chapter I: Introducing Geotextiles Chapter II: Jute, Jute Fibre & Jute Yarn Chapter III: Jute Geotextiles—Its Types & Functions Chapter IV: Soil Basics Chapter V: Control of Soil Erosion caused by Rain &

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	Wind with Jute Geotextiles Chapter VI: Strengthening of Road Sub- Grade with Jute Geotextiles Chapter VII: Controlling River Bank Erosion with Jute Geotextiles Chapter VIII: Stabilizing Embankments with Jute Geotextiles Chapter IX: Management of Settlement of Railway Tracks Chapter X: Consolidation of Soft Soil with Pre- Fabricated Vertical Jute Drain Chapter XI: Jute Geotextile Standards, Properties & Test Methods Chapter XII: Environmental Aspects Chapter XIII: Potentially Important Jute Geo-Textiles Chapter XIV: Transportation, Storage and Handling of Jute Geotextiles Chapter XV: Prospective Applications of JGT & Its Variants Chapter XVI: Economical and Environmental Advantages of JGT in Different Applications Chapter XVII: Applications of JGT & Few Case Studies Chapter XVIII: Future of Jute Geotextiles Bibliography & Index.
Sommario/riassunto	This book presents a first-of-its-kind exposition on the emerging technology of jute fibre geotextiles. The book covers the characteristics of jute fibre and jute yarns, types and functions of jute geotextiles, and the mechanism of control of surficial soil with jute geotextiles. The content also includes applications such as the mechanisms of functioning of jute geotextiles in strengthening road sub-grade and controlling river bank erosion, stabilization of earthen embankments, management of settlement of railway tracks, and consolidation of soft soil by use of pre-fabricated vertical jute drains (PVJD). Geotextile standards, properties and test methods, variants of jute geotextiles, economical and environmental advantages in different applications are covered along with a few case studies. A chapter on soil basics is included to enable clearer understanding of soil mechanisms. The book can be used as a reference work or as primary or supporting text for graduate and professional coursework. It will also prove useful to researchers and practicing engineers looking for a comprehensive treatise on jute geotextiles.