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	Titolo	Digital storage in consumer electronics : the essential guide / / by Thomas M. Coughlin
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	ISBN	3-319-69907-5
	Edizione	[2nd ed. 2018.]
	Descrizione fisica	1 online resource (XV, 245 p. 103 illus., 95 illus. in color.)
	Disciplina	621.3815
	Soggetti	Electronic circuits
		Computer storage devices
		Microprocessors
		Electronics
		Microelectronics
		Circuits and Systems
		Memory Structures
		Processor Architectures
		Electronics and Microelectronics, Instrumentation
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	Introduction -- Fundamentals of Hard Disk Drives -- Fundamentals of Optical Storage -- Fundamentals of Flash Memory and Other Solid-State Memory Technologies -- Storage in Home Consumer Electronics Devices -- Storage in Automobile and Mobile Consumer Electronic Devices -- Developments in Mobile Consumer Enabling Technologies -- Integration of Storage in Consumer Devices -- Home Network Storage, the Cloud and the Internet of Things -- The Future of Home Digital Storage -- Standards for Consumer Electronics Storage and Appendices.
	Sommario/riassunto	This book provides an introduction to digital storage for consumer electronics. It discusses the various types of digital storage, including emerging non-volatile solid-state storage technologies and their advantages and disadvantages. It discusses the best practices for selecting, integrating, and using storage devices for various

applications. It explores the networking of devices into an overall organization that results in always-available home storage combined with digital storage in the cloud to create an infrastructure to support emerging consumer applications and the Internet of Things. It also looks at the role of digital storage devices in creating security and privacy in consumer products.   Provides a complete guide to technical aspects of digital storage for consumer electronics; Discusses the technology of digital storage devices used in common consumer applications and shows how they are selected and integrated into a marketable product; Provides an updated, second edition to address the many changes in technology and applications that have arisen, providing critical information for designers and storage device developers.