

1. Record Nr.	UNINA9910467356303321
Autore	Rosa Jose M. de la
Titolo	Sigma-delta converters : practical design guide // Jose M. de la Rosa, University of Seville, Spain
Pubbl/distr/stampa	Hoboken, New Jersey, USA : , : Wiley-IEEE Press, , 2019 [Piscataway, New Jersey] : , : IEEE Xplore, , [2018]
ISBN	1-119-27575-X 1-119-27577-6
Edizione	[Second edition.]
Descrizione fisica	1 online resource (566 pages)
Disciplina	621.3815/9
Soggetti	Metal oxide semiconductors, Complementary - Design and construction Analog-to-digital converters - Design and construction Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Revised edition of: CMOS sigma-delta converters.
Nota di bibliografia	Includes bibliographical references and index.
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Sommario/riassunto

Thoroughly Revised and Expanded to Help Readers Systematically Increase Their Knowledge and Insight About Sigma-Delta Modulators Sigma-Delta Modulators "Ms" have become one of the best choices for the implementation of analog/digital interfaces of electronic systems integrated in CMOS technologies. Compared to other kinds of Analog-to-Digital Converters "ADCs", Ms cover one of the widest conversion regions of the resolution-versus-bandwidth plane, being the most efficient solution to digitize signals in an increasing number of applications, which span from high-resolution low-bandwidth digital audio, sensor interfaces, and instrumentation, to ultra-low power biomedical systems and medium-resolution broadband wireless communications. Following the spirit of its first edition, Sigma-Delta Converters: Practical Design Guide, 2nd Edition takes a comprehensive look at Ms, their diverse types of architectures, circuit techniques, analysis synthesis methods, and CAD tools, as well as their practical design considerations. It compiles and updates the current research reported on the topic, and explains the multiple trade-offs involved in the whole design flow of Ms; from specifications to chip implementation and characterization. The book follows a top-down approach in order to provide readers with the necessary understanding about recent advances, trends, and challenges in state-

of-the-art Ms. It places more emphasis on two key points, which were not treated so deeply in the first edition: . It includes a more detailed explanation of Ms implemented using Continuous-Time "CT" circuits, going from system-level synthesis to practical circuit limitations.. It provides more practical case studies and applications, as well as a deeper description of the synthesis methodologies and CAD tools employed in the design of converters. Sigma-Delta Converters: Practical Design Guide, 2nd Edition serves as an excellent textbook for undergraduate and graduate students in electrical engineering as well as design engineers working on data converters, who are looking for a uniform and self-contained reference in this hot topic. With this goal in mind, and based on the feedback received from readers, the contents have been revised and structured to make this new edition a unique monograph written in a didactical, pedagogical, and intuitive style.

2. Record Nr.	UNINA9910777931903321
Autore	M A K (Muthusamy Anantha Kumar), <1974->
Titolo	Professional SQL server 2008 administration with Windows Powershell [[electronic resource] /] / Muthusamy Anantha Kumar, Yan Pan
Pubbl/distr/stampa	Indianapolis, IN, : Wiley Pub., 2009
ISBN	1-118-05867-4 1-282-12261-4 9786612122613 0-470-53001-4
Edizione	[1st edition]
Descrizione fisica	1 online resource (580 p.)
Collana	Wrox guides Professional SQL server 2008 administration with Windows PowerShell
Classificazione	54.32
Altri autori (Persone)	PanYan <1976->
Disciplina	005.2/82
Soggetti	Windows PowerShell (Computer program language)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Microsoft SQL Server 2008 Administration with Windows PowerShell; About the Authors; Credits; Acknowledgments; Contents; Introduction; Who This Book Is For; What This Book Covers; How This Book Is Structured; What You Need to Use This Book; Conventions; Source

Code; Errata; Chapter 1: What Is Windows PowerShell?; Command-Line Interfaces versus Graphical User Interfaces; Prerequisites for Installing Windows PowerShell 2.0; Installing Windows PowerShell; Launching Windows PowerShell; Summary; Chapter 2: Windows PowerShell Command Types, Snap-ins, and cmdlets; PowerShell Command Types PowerShell Snap-ins PowerShell cmdlet Syntax; Getting Help; Sorting; Formatting; Summary; Chapter 3: Windows PowerShell Programming, Scripting, Error Handling, and Debugging; PowerShell Scripts; PowerShell Variables; Arrays; Expressions; Conditional Expressions; Loop Construct; Input; PowerShell Scripting; Text File As Input; Output; Error Handling; Debugging; Summary; Chapter 4: Windows PowerShell Functions, Parameters, Sourcing, Scopes, and User Profiles; Functions; Script Parameters; Sourcing; Variable Scope; Transcripts; Summary Chapter 5: Working with the File System, Registry, and Variables Using Get-PSDrive and Get-PSProvider; Working with File System; Working with the Registry; Working with Variables; Working with Environment Variables; Summary; Chapter 6: Working with Event Logs; Event Log Service; Event Viewer; Event Logs; Log Entry Types; Exporting the event logs; Summary; Chapter 7: Working with Windows Services and Processes; What Is a Windows Service?; Windows PowerShell and Windows Services; Working with Windows Processes; Get-Process; Stop-Process; Summary; Chapter 8: Working with WMI Permission Issues and WMI The WMI Model; Working with Event Log; Working with Services; Working with Processes; Working with Environment Variables; Working with the Registry; Summary; Chapter 9: WMI Provider for Configuration Management; Managing SQL Server Services; Managing Client Network Protocols; Managing SQL Server Client Aliases; Managing Server Network Protocols; Changing FILESTREAM Settings; Changing SQL Server Advanced Properties; Summary; Chapter 10: WMI Provider for Server Events; WMI Provider for Server Events; WMI Query Language (WQL); Event Handling with Windows PowerShell 2.0 Monitoring Errors from the SQL Server Error Log Monitoring Deadlocks; Monitoring Blockings; Monitoring Login Changes and Failed Login Attempts; Monitoring Databases; Monitoring Database Objects; Summary; Chapter 11: Windows PowerShell in SQL Server 2008 Environment, SQL Server PowerShell Provider; sqlps Utility; SQLSERVER: Drive and Invoke-Sqlcmd cmdlet; SQL Snap-ins; Encoding and Decoding Uniform Resource Name (URN); Summary; Chapter 12: Managing Policies through SQLSERVER:\SQLPolicy; SQLSERVER:\SQLPolicy Folder; Conditions; Policies; Summary; Chapter 13: Windows PowerShell and SMO PowerShell and the SqlConnection .NET Class

Sommario/riassunto

The definitive guide to automating SQL Server administration with Powershell scripts If you're a SQL Server database administrator, this book will make your life easier. Windows PowerShell is an administrative scripting tool that allows you to automate many tasks you're probably currently doing by hand. This nuts-and-bolts guide shows you how to create Windows PowerShell scripts to administer almost every aspect of SQL Server. You'll get a thorough introduction to PowerShell basics and all the PowerShell components that have been integrated into SQL Server 2008, as well as actual ad
