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Altri autori (Persone)	FengZhe Chuan
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Nota di contenuto	CONTENTS ; Preface ; Chapter 1 Hydride vapor phase epitaxy of group III nitride materials ; 1.Introduction ; 2.Experiment ; 3.Material Properties ; 3.1. Undoped GaN layers ; 3.2. Si-doped GaN layers ; 3.3. Mg-doped GaN layers ; 3.4. Zn-doped GaN layers ; 3.5. AlN layers ; 3.6. AlGaIn layers ; 3.7. InN and InGaIn layers ; 4.New directions in HVPE development ; 4.1. Large area and multi wafer HVPE growth ; 4.2. Multi-layer structures ; 4.3. P-n junctions ; 4.4. Structures with two dimensional carrier gas ; 4.5. Nano structures and porous materials ; 5.Applications of HVPE grown group III nitride materials ; 5.1. Substrate applications ; 5.1.1. Template substrates ; 5.1.2. Free-standing substrates ; 5.1.3. Bulk substrates ; 5.2. Device Applications

; 6. Conclusions

Chapter 2 Planar MOVPE technology for epitaxy of III-nitride materials

1. History of Reactor Development for III-Nitrides

; 2. Types of Planar Reactors ; 3. Reactor Modeling

; 3.1. Growth Kinetics of Group-III Nitride MOVPE

; 3.2. Modeling of MOVPE processes

3.3. Horizontal Tube Reactors: Flow Dynamics and Reactor Technology

3.4. Planetary Reactors: Transport Phenomena & Parameter

Dependencies ; 4. In-

situ Technology in Nitride MOCVD Systems

; 5. The Mass Production of GaN and Related Materials

; 5.1. Optoelectronic Device Structures

5.2. Growth in the 8x4 inch Configuration

Sommario/riassunto

III-Nitride semiconductor materials - (Al, In, Ga)N - are excellent wide band gap semiconductors very suitable for modern electronic and optoelectronic applications. Remarkable breakthroughs have been achieved recently, and current knowledge and data published have to be modified and upgraded. This book presents the new developments and achievements in the field. Written by renowned experts, the review chapters in this book cover the most important topics and achievements in recent years, discuss progress made by different groups, and suggest future directions. Each chapter also describes th

2. Record Nr.	UNINA9910971446703321
Autore	Abounaga Ahmed
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Edizione	[1st edition]
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Nota di contenuto	Cover; Copyright; Credits; About the Authors; Acknowledgement; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Chapter 1: SOA Infrastructure Management: What you Need to Know; Identifying and overcoming monitoring and management challenges in SOA; Monitoring the SOA platform-centralized management and monitoring; Oracle Enterprise Manager Fusion Middleware Control; Oracle SOA Suite 11g infrastructure stack; Performance monitoring and management; Managing composite application lifecycles; Automating application deployments and migrations through continuous integration Cloning domains from test to productionIntroducing Oracle Enterprise Manager Fusion Middleware Control; Accessing the Oracle Enterprise Manager Fusion Middleware Control Console; Navigating the console through the navigator; Presenting the dashboards; SOA suite configuration; Deployed Java EE applications; The other consoles; Summary; Chapter 2: Management of SOA Composite Applications; Managing composite lifecycles; Understanding revisions; Changing the

composite default revision at runtime; Deploying, redeploying, and undeploying composites; Deploying a composite; Redeploying a composite

Undeploying a composite Starting up and shutting down composites; Starting a composite; Shutting down a composite; Retiring and activating composites; Retiring a composite; Activating a composite; Deleting instances; Structuring composite deployments with partitions; The default partition; Managing partitions; Creating a partition; Deleting a partition; Grouping SOA composite applications into partitions; Considerations for partition management; Setting up ant for automated composite management; Setting the environment; Setting the environment path for ant

Starting and stopping composites with ant Packaging, deploying, and undeploying composites with ant; Packaging a composite via ant; Deploying a composite via ant; Undeploying a composite via ant; Exporting MDS artifacts with ant; Importing artifacts to the MDS with ant; Promoting code using configuration plans; Why we need configuration plans; Understanding configuration plan contents; ; ; ; Attaching a configuration plan; Best practices with configuration plans; Using configuration plans; Understanding and configuring composite audit levels

Audit levels Order of precedence for audit level settings; Modifying audit levels; Modifying component audit levels; Modifying composite audit levels; Modifying service engine audit levels; Modifying SOA Infrastructure Audit Levels; Summary; Chapter 3: Monitoring Oracle SOA Suite 11g; Transaction monitoring; Monitoring instances; Monitoring faulted instances; Searching composite sensors; Searching BPEL process sensors; Understanding IDs and ECIDs; Instance states; Monitoring instance performance; Understanding last update time of instances

Viewing performance summary graphs and request processing metrics

Sommario/riassunto

Create a reliable, secure, and flexible environment for your Oracle SOA Suite 11g Service Infrastructure and SOA composite applications.
