

These data allowed the identification of products arising from ring oxidation, ring attack, side chain oxidation, and photo-Fries reactions.

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## Analytical Chemistry and Material Purity in the Semiconductor Industry

Purneshwar Seegopaul

Materials Research Corporation  
Orangeburg, NY 10962

Analytical chemistry has evolved from a "hodge-podge" of empirical ideas into a highly visible, diverse and ubiquitous science. Perhaps the two most important industries that place significant demands on analytical chemistry are the biomedical and semiconductor fields. One can envisage a symbiotic relationship between analytical chemistry and the semiconductor industry. While improved analytical methods and instrumentation are constantly needed to support technological progress, it is technology development that provides the impetus and tools for enhanced instruments and thereby, analytical methodology.

The electronic revolution has resulted in significant miniaturization of devices on integrated circuits with complex multi-level structures. A typical VLSI circuit may contain up to a million devices! Obviously, this degree of complexity raises concern of yield, quality, and reliability. Materials play a critical role in these issues with the type and purity of the material directly influencing the profitability and very survival of semiconductor industries. For example, capacitance-voltage shifts caused by mobile ion impurities and ionization effects resulting from alpha-particles destroy the integrity of the devices. Table I shows the diversity of materials and their applications.

Table I. Materials and their applications

Thermal print heads		Optical disks	
Ta <sub>2</sub> O <sub>5</sub>	As	Te	CaF <sub>2</sub>
SiC	Al	Bi	
SiO <sub>2</sub>	Cr	Al	
Ta <sub>2</sub> N		Rb	
		And alloys of above	
Thin film heads		Hard disks— Winchester type	
Ni-Fe	Al <sub>2</sub> O <sub>3</sub>	Ni-Fe	SiO <sub>2</sub>
Fe-Si-Al	As	Co-Ni	Cr
SiO <sub>2</sub>		Co-Cr	Ni-V
Al		C	
		Co-Ni-Cr	
Integrated circuits		Optical magnetic disks	
Al(Al-Si, Al-Cu, Al-Si-Cu)		Gd-Co	
Si	Mo & MoSi <sub>2</sub>	Te-Fe	
W-Ti	Ta & TaSi <sub>2</sub>	Al	
SiO <sub>2</sub>	W & WSi <sub>2</sub>	SiO <sub>2</sub>	
As	Ti & TiSi <sub>2</sub>	Te-Co-Fe	
Pt	Doped Si	And other alloys	
Liquid crystal displays		Thin film hybrids	
ITO	SiO <sub>2</sub>	Cr	As
ATO	Al <sub>2</sub> O <sub>3</sub>	Ni-V	Ta <sub>2</sub> N
Doped ZnS	Al	W-Ti	Ta
In-Sn Metal			
Resistors		Image sensors	
Hybrids	Monolithic	ITO	Cr
Ni-Cr	Al-Ta	In-Sn	Al
Cr-Si		SiO <sub>2</sub>	
Cr/Cr <sub>2</sub> O <sub>3</sub>	Ni-Cr-Si		
Cr-SiO <sub>2</sub>	Ni-Cr-Al		

The enormous significance of material purity, however, is unfortunately clouded with the current practice of defining purity. At best, the purity phenomenon exists in a very arbitrary manner with its use subject to a myriad of interpretations. Purity of material in the semiconductor industry generally refers to the extent of the absence of impurities in the material. This then introduces the concept of total purity.

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**Padhraic Smyth**



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## **Table of Contents Analytical Chemistry And Material Purity In The**

1. Understanding the eBook Analytical Chemistry And Material Purity In The
  - The Rise of Digital Reading Analytical Chemistry And Material Purity In The
  - Advantages of eBooks Over Traditional Books
2. Identifying Analytical Chemistry And Material Purity In The
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Analytical Chemistry And Material Purity In The
  - User-Friendly Interface
4. Exploring eBook Recommendations from Analytical Chemistry And Material Purity In The
  - Personalized Recommendations
  - Analytical Chemistry And Material Purity In The User Reviews and Ratings
  - Analytical Chemistry And Material Purity In The and Bestseller Lists
5. Accessing Analytical Chemistry And Material Purity In The Free and Paid eBooks
  - Analytical Chemistry And Material Purity In The Public Domain eBooks
  - Analytical Chemistry And Material Purity In The eBook Subscription Services
  - Analytical Chemistry And Material Purity In The Budget-Friendly Options

6. Navigating Analytical Chemistry And Material Purity In The eBook Formats
  - ePub, PDF, MOBI, and More
  - Analytical Chemistry And Material Purity In The Compatibility with Devices
  - Analytical Chemistry And Material Purity In The Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Analytical Chemistry And Material Purity In The
  - Highlighting and Note-Taking Analytical Chemistry And Material Purity In The
  - Interactive Elements Analytical Chemistry And Material Purity In The
8. Staying Engaged with Analytical Chemistry And Material Purity In The
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Analytical Chemistry And Material Purity In The
9. Balancing eBooks and Physical Books Analytical Chemistry And Material Purity In The
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Analytical Chemistry And Material Purity In The
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Analytical Chemistry And Material Purity In The
  - Setting Reading Goals Analytical Chemistry And Material Purity In The
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Analytical Chemistry And Material Purity In The
  - Fact-Checking eBook Content of Analytical Chemistry And Material Purity In The
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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