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Autore	Honeywill Paul
Titolo	Visual language for the World Wide Web [[electronic resource] /] / Paul Honeywill
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ISBN	1-280-47744-X 9786610477449 1-84150-862-4 0-585-21099-3
Descrizione fisica	1 online resource (194 p.)
Disciplina	006.6/9
Soggetti	Web sites Visual communication Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 183-188) and index.
Nota di contenuto	Front Cover; Preliminaries; Table of Contents; Acknowledgements; Trademarks; Introduction to a Visual Language for the World Wide Web; Chapter 1: Learning from the Past to Inform the Present: Maya Hieroglyphic Writing; Chapter 2: Simple Words and Visual Metaphors; Chapter 3: Designing Icons for the Graphical User Interface; Chapter 4: Computer Compound Icons and their Families; Chapter 5: Evaluating Representative and Abstract Computer Compound Icons; Chapter 6: Navigating Interfaces; Conclusion; Bibliography; Index; Back Cover
Sommario/riassunto	In this digital age, are there cultural lessons for us in looking to the earliest kinds of communications? The icons used in ancient Mayan and Sumerian language systems are presented here as direct cultural links to the visual presentation of World Wide Web pages on the Internet. The book shows how the development of digital screens has caused visual human communication to come full circle from the earliest representations. The in-depth analysis demonstrates how these visual languages now serve as a rich source for renewed study for the development of meaningful computer icons. Readers are als

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Titolo	LEDs for lighting applications [[electronic resource] /] / edited by Patrick Mottier
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Descrizione fisica	1 online resource (298 p.)
Collana	ISTE ; ; v.134
Altri autori (Persone)	MottierPatrick
Disciplina	621.3815/22 621.381522
Soggetti	Light emitting diodes Electric lighting - Equipment and supplies
Lingua di pubblicazione	Inglese
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Nota di contenuto	LEDs for Lighting Applications; Table of Contents; Foreword; Introduction; Chapter 1. Light-Emitting Diodes: Principles and Challenges; 1.1. History of a revolution in the world of the light sources; 1.2. LEDs and lighting; 1.3. Principle of operation, color, efficiency, lifetime and quality of LEDs; 1.3.1. White light production from LEDS: principles and challenges; 1.3.2. Lifetime; 1.3.3. Quality of LEDs; 1.4. Challenges facing LEDs; 1.5. Bibliography; Chapter 2. Substrates for III-Nitride-based Electroluminescent Diodes; 2.1. Introduction 2.2. Crystal structure and epitaxial relation with 6H-SiC and Al2O32.3. Defects and constraints due to heteroepitaxy; 2.3.1. Dislocations; 2.3.2. Disorientation of the substrate; 2.3.3. Epitaxial stress; 2.3.4. Thermal stress; 2.4. MOVPE growth of GaN on sapphire; 2.4.1. GaN growth; 2.4.2. Standard 2D epitaxy; 2.4.3. 3D epitaxial growth; 2.4.4. Epitaxial lateral overgrow (ELO 1S); 2.4.5. Anisotropic growth; 2.4.6. Two stage ELO GaN growth (ELO 2S); 2.4.7. GaN growth using pendeo-

epitaxy; 2.4.8. Nano epitaxy; 2.5. Bulk nitride substrates
2.5.1. HNPS (high nitrogen pressure solution method) for the fabrication of crystalline GaN2.5.2. Ammonothermal synthesis of GaN; 2.5.3. Halide vapor phase epitaxy (HVPE) of GaN; 2.6. Conclusion; 2.7. Bibliography; Chapter 3. III-Nitride High-Brightness Light-Emitting Diodes; 3.1. Introduction; 3.2. p-n junction in GaN; 3.3. Active region: InGaN/GaN quantum well; 3.3.1. Growth and structure; 3.3.2. Optical properties; 3.4. Radiative efficiency; 3.5. Conclusion and prospects; 3.6. Bibliography; Chapter 4. Diode Processing; 4.1. Introduction; 4.2. Orders of magnitude; 4.3. Diode configurations
4.3.1. Conventional chip (CC)4.3.2. Flip chip (FC); 4.3.3. Vertical thin film (VTF); 4.3.4. Thin film flip chip (TFFC); 4.4. Light extraction at wafer level; 4.5. Diode processing, etching, contact deposition; 4.5.1. N-type contacts; 4.5.2. P-type contacts; 4.6. Etching; 4.7. Substrate removal; 4.8. Potential evolutions; 4.9. Bibliography; Chapter 5. Packaging; 5.1. Introduction; 5.2. Different packaging processes; 5.2.1. Historical background; 5.2.2. From the wafer to the chip; 5.2.3. Components with connection pins; 5.2.4. SMT leadform components; 5.2.5. SMT "leadless" components
5.2.6. Other technologies5.2.7. Conclusion; 5.3. Thermal management; 5.3.1. Motivations; 5.3.2. Heat dissipation modes; 5.3.3. Thermal dissipation in LEDs; 5.3.4. Comparison of different packaging processes; 5.3.5. Conclusion; 5.4. Light extraction in LEDs; 5.4.1. Lateral light extraction in LEDs; 5.4.2. Vertical light extraction through a lens; 5.4.3. Lens/encapsulant materials; 5.4.4. Lenses and encapsulant implementation; 5.5. LED component characteristics; 5.5.1. Thermal and electrical characteristics; 5.5.2. Optical characteristics; 5.5.3. Binning; 5.5.4. Reliability
5.6. Conclusion and trends

Sommario/riassunto

Light Emitting Diodes (LEDs) are no longer confined to use in commercial signage and have now moved firmly, and with unquestioned advantages, into the field of commercial and domestic lighting. This development was prompted in the late 1980s by the invention of the blue LED, a wavelength that had previously been missing from the available LED spectrum and which opened the way to providing white light. Since that point, LED performance (including energy efficiency) has improved dramatically, and now compares with the performance of fluorescent lights - and there remain further performance impro