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Nota di contenuto	Telecosmos; Contents; Introduction; Information Portal; Back to Me; I, Telecom Junkie; 1. On the Menu-Telecom Services; 1.1 End of the Line for Wireline?; 1.2 The Broadband World; 1.2.1 Broadband Over Power Lines; 1.3 The Upcoming Mobile Stall; 1.4 Fourth-Generation Mobile Service; 1.5 Modular Components; 1.6 A Considerate Telephone; 1.7 E-Mail Leads to Instant Messaging; 1.8 Fun and Games; 1.9 Flying Phone Service; 1.10 Speech Integration; 1.11 Telemedicine; 1.11.1 Health Monitoring; 1.11.2 Small Clinics/Hospitals; 1.11.3 Monitoring on the Road 2. Nuts and Bits-Telecom Hardware, Software, and More 2.1 Personal Computers; 2.1.1 Smaller and Smarter PCs; 2.2 Home Automation; 2.3 Wearable Computers; 2.4 Smart Fabrics; 2.5 Embedded Systems; 2.6 Project Oxygen; 2.6.1 The Vision; 2.6.2 Goals; 2.6.3 User Technologies; 2.6.4 Applications; 2.6.5 Hurdles; 2.6.6 The Payoff; 2.7 The Obje

Software Architecture; 2.8 BARN Opens the Door; 2.9 Phone Awareness; 2.10 Cognitive Software: Anticipating User Intent; 2.11 Devices That Understand You; 2.12 Turbocharging Data; 2.12.1 Faster Transistor; 2.12.2 Cutting-Edge Manufacturing; 2.12.3 Wireless Chip 2.12.4 Open Source Smart Phones 2.12.5 Nanowiring; 2.13 MEMS; 2.13.1 Low-Loss, Wide-Bandwidth MEMS; 2.13.2 Stressed Metal MEMS; 2.13.3 The Nanoguitar; 2.14 Storage; 2.14.1 Tiny Hard Drive; 2.14.2 Optical Storage; 2.14.3 Nanoring Memory; 2.15 More Efficient Base Stations; 2.15.1 Boosting Mobile Phone Range; 3. Connections in the Air-Wireless Technologies; 3.1 Wireless LAN "Hotspots"; 3.2 WLANs to Come; 3.3 WLAN for Emergency Communications; 3.4 Smart Brick; 3.5 Wireless Smart Stuff; 3.6 Wireless on Wheels; 3.7 Mesh Networks; 3.7.1 Emergency Mesh; 3.8 Wireless Sensor is a "Spec" 3.9 Collaborative Sensing 3.10 Optical Sensors; 3.11 Navigating the Real World; 3.12 Wireless Underwear; 4. The Future is Fiber-Optical Technologies; 4.1 Faster Networks; 4.1.1 Faster Fiber; 4.1.2 Next-Generation Telecom Network; 4.2 New Optical Materials; 4.2.1 New Glasses; 4.2.2 Optical Fibers in Sponges; 4.2.3 Mineral Wire; 4.2.4 Hybrid Pastic; 4.2.5 Buckyballs; 4.2.6 Old Glass/New Promise; 4.3 Nanophotonics; 4.4 Wave Polarization; 4.5 Optical Communications via CDMA; 4.6 Light Emitters; 4.6.1 Smallest Light Emitter; 4.6.2 Light-Emitting Transistor; 4.6.3 VCSEL; 4.6.4 Improved VCSEL 4.6.5 Tiny Laser 4.6.6 Looking Into Lasers; 4.6.7 Manipulating Light; 4.7 Optical Antenna; 4.8 Keeping Copper; 5. The Internet Rules-IP Technologies; 5.1 VoIP Telephony; 5.2 The Next Internet; 5.2.1 Riding the LambdaRail; 5.2.2 Faster Protocol; 5.3 Grid Computing; 5.4 Infostructure; 5.4.1 Intelligent Agents; 5.4.2 Next-Generation Agent; 5.5 Tele-Learning Opens Horizons; 5.6 A New Approach to Virus Scanning; 5.7 Putting a Lid on Spam; 5.8 The Meaning Behind Messages; 5.9 Internet Simulator; 5.10 Untangling Tangled Nets; 6. Something in the Air-Radio and Location Technologies; 6.1 Digital Radio 6.2 Software-Defined Radio

Sommario/riassunto

Although telecom companies are battling for survival, technology is moving forward. In research laboratories around the world, powerful new technologies are being developed that will shape tomorrow's communications world. Telecosmos will look at the many different telecom concepts that will be adopted by both consumers and businesses in the years ahead.
