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The intrinsic high optical nonlinearity originating from tight optical mode connement due to inherent high index contrast between the core and cladding, along with the potential ability of dense on-chip integration with microelectronic circuits, made silicon photonics one of the rapidly growing research areas.

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"Edited by a leader in the field, this book describes silicon photonics from the basics to integrated systems and applications. It covers a broad spectrum from the theory to applications, emphasizing passive and active photonic devices, fabrication, integration and the convergence with CMOS technology.

Handbook of silicon photonics (eBook, 2013) [WorldCat.org]

So when various materials in photonics applications work in tandem, a better performing hybrid approach arises, and teamwor. Menu. Photonics Media Buyers' Guide. Register Login. Publications News Features Products Technologies Media Education Careers Webinars Events. Subscribe Advertise About Us Bookstore.

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Liquid crystal is now the dominant technology for flat-screen displays and has been used in telecom systems since the late 1990s. More recently, the adoption of liquid crystals in Wavelength Selective Switches—with the control of light on a pixel-by-pixel basis—has been enabled by developments in Liquid Crystal on Silicon (LCoS) backplane technologies derived from projection displays.

Optical Fiber Telecommunications VIA: Chapter 18 ...

I realise that MW Engineering /and/ Silicon Photonics together form a pretty broad area. I'm wondering if anyone here has first hand experience with the TU Delft Microelectronics MSc, TUM's Communications Engineering MSc or the KU Leuven programme and could comment on expertise and quality of teaching in relation to these research areas.