1. Record Nr. UNINA9910536553103321

Autore	Sower Victor E
Titolo	Insightful quality [[electronic resource]] : beyond continuous improvement / / Victor Sower and Frank Fair
Pubbl/distr/stampa	[New York, N.Y.] (222 East 46th Street, New York, NY 10017), : Business Expert Press, 2012
ISBN	1-78268-079-9 1-283-89302-9 1-60649-291-8
Edizione	[1st ed.]
Descrizione fisica	1 online resource (146 p.)
Collana	Supply and operations management collection, , 2156-8200
Altri autori (Persone)	FairFrank
Disciplina	658.406
Soggetti	Organizational change Leadership Strategic planning Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Part of: 2012 digital library.
Nota di bibliografia	Includes bibliographical references (p. 107-117) and index.
Nota di contenuto	List of tables -- List of figures -- List of examples -- Abbreviations and acronyms -- Acknowledgments -- 1. Introduction -- 2. Why continuous incremental improvement is not sufficient for organizational success -- 3. Insight -- 4. The insightful organization -- 5. Insightful ways of thinking for managers -- 6. Insightful use of existing tools -- Notes -- References -- Index.
Sommario/riassunto	Warren Bennis said that management is about doing things right while leadership is about doing the right things. Of course organizations need both good management and good leadership--they need to do the right things right, but Bennis contended that modern organizations are often under-led and over-managed. It is organizational leadership that is essential to attaining and maintaining market leadership over time, and accomplishing this cannot be done with simple solutions or silver bullets. Continuous improvement--optimizing processes, reducing costs, eliminating defects--is about doing things right and is vital to an organization's success. But incremental improvement alone will not assure the long-term success of the organization. Being the

	low-cost producer of the world's best 1960s era slide rule will not enable a company to compete in today's electronic calculator, tablet computer, and PC world. The world's best floppy disk cannot compete with today's low end USB flash drives--and new ferroelectric material-based memory devices currently under development promise to render flash drive technology obsolete. Today's consumers are not interested in purchasing slide rules and floppy disks even if they are inexpensive and 100% defect-free. Those are products of an obsolete paradigm, and in many cases the companies that produced them are no longer in existence.

2. Record Nr. UNINA9910985665103321

Autore	Hofbauer Michael
Titolo	Single-Photon Detection for Data Communication and Quantum Systems
Pubbl/distr/stampa	Bristol : , : Institute of Physics Publishing, , 2022 ©2021
ISBN	9780750343794 0750343796
Edizione	[1st ed.]
Descrizione fisica	1 online resource (210 pages)
Collana	IOP Series in Advances in Optics, Photonics and Optoelectronics Series
Altri autori (Persone)	ZimmermannHorst Schneider-HornsteinKerstin
Soggetti	Photon detectors Quantum computing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Preface -- Author biographies -- Michael Hofbauer -- Kerstin Schneider-Hornstein -- Horst Zimmermann -- Symbols -- Chapter 1 Single-photon avalanche diodes (SPADs) -- 1.1 Basics and properties -- Optical absorption and photogeneration -- Drift and diffusion -- Width of the space-charge region and capacitance -- Impact ionisation -- Breakdown voltage -- Geiger mode -- 1.2 Discrete dedicated SPADs -- 1.2.1 Dedicated SPADs -- 1.2.2 Silicon Photomultipliers -- 1.3

SPADs integrated into CMOS and BiCMOS -- 1.3.1 Thin SPADs -- 1.3.2 Thick SPADs -- 1.4 A model for photon detection probability -- References -- Chapter 2 Photon-counting modules -- 2.1 Quenching -- 2.1.1 Passive quenching -- 2.1.2 Advanced passive quenching -- 2.1.3 Active quenching -- 2.2 PCMs using discrete circuits -- 2.3 PCMs using integrated circuits -- References -- Chapter 3 Advanced quenching and gating of integrated SPADs -- 3.1 Advanced quenching -- 3.1.1 Single-supply-voltage quenching circuit -- 3.1.2 Double-supply-voltage quenching circuit -- 3.1.3 Triple-supply-voltage quenching circuits -- 3.1.4 Quadruple-supply-voltage quenching circuit -- 3.2 Gating -- 3.2.1 Gating circuit -- 3.2.2 Advanced gating circuit -- References -- Chapter 4 SPAD receivers for data communications -- 4.1 Modeling of receiver bit error ratio -- 4.2 Fiber receivers -- 4.3 Optical wireless communications experiments with SPAD receivers -- References -- Chapter 5 SPADs in quantum applications -- 5.1 Introduction -- 5.2 Superconducting nanowire single-photon detectors -- 5.2.1 Key parameters of a single-photon detector -- 5.2.2 A comparison of SPADs and SNSPDs -- 5.3 Quantum key distribution -- 5.3.1 One-time pad -- 5.3.2 BB84 protocol -- 5.3.3 Ekert protocol -- 5.3.4 Quantum random number generator -- 5.3.5 Requirements for single-photon detectors in QKD -- 5.4 Photonic quantum simulation.
5.4.1 Quantum walk -- 5.4.2 Boson sampling -- 5.4.3 Requirements for single-photon detectors in quantum simulation -- 5.5 Photonic quantum computing -- 5.5.1 Requirements for quantum computers -- 5.5.2 Qubit -- 5.5.3 Photonic two-input gates -- 5.5.4 Cluster states -- 5.5.5 Requirements for single-photon detectors in quantum computing -- 5.6 Ghost imaging -- 5.6.1 Requirements for single-photon detectors in ghost imaging -- 5.7 Super-resolution microscopy -- 5.7.1 Single-molecule localization microscopy -- 5.7.2 Super-resolution quantum microscopy -- 5.7.3 Requirements for single-photon detectors in super-resolution microscopy -- References.

Sommario/riassunto

This book shows the progress of integrated (thick) CMOS SPADs towards high photon detection probabilities and applications such as in low-cost consumer data communication and high-end single-photon counting for quantum applications. New research is introduced and comprehensively detailed.