1. Record Nr. UNIPARTHENOPE000012147

Autore	Fishburn, Peter C.
Titolo	Mathematics of decision theory / by Peter C. Fishburn
Pubbl/distr/stampa	Paris : Mouton, c1972
Descrizione fisica	104 p. ; 23 cm
Collana	Methods and models in the social sciences ; 003
Disciplina	510
Collocazione	510/103
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910830451403321

Autore	Talbot Daniel (Daniel B.)
Titolo	Frequency acquisition techniques for phase locked loop / / author Daniel Talbot
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, Inc., , [2012] [Piscataqay, New Jersey] : , : IEEE Xplore, , [2012]
ISBN	1-118-38330-3 1-283-59323-8 9786613905680 1-118-38331-1
Descrizione fisica	1 online resource (238 p.)
Disciplina	621.3815/486 621.382
Soggetti	Frequency synthesizers Phase-locked loops
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 and index.
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Sommario/riassunto

How to acquire the input frequency from an unlocked stateA phase locked loop (PLL) by itself cannot become useful until it has acquired the applied signal's frequency. Often, a PLL will never reach frequency acquisition (capture) without explicit assistive circuits. Curiously, few books on PLLs treat the topic of frequency acquisition in any depth or detail. Frequency Acquisition Techniques for Phase Locked Loops offers a no-nonsense treatment that is equally useful for engineers, technicians, and managers.Since mathematical rigor for its own sake can degenerate into intellectual "rigor mortis," the author introduces readers to the basics and delivers useful information with clear language and minimal mathematics. With most of the approaches having been developed through years of experience, this completely practical guide explores methods for achieving the locked state in a variety of conditions as it examines:. Performance limitations of phase/frequency detector-based phase locked loops. The quadricorrelator method for both continuous and sampled modes. Sawtooth ramp-and-sample phase detector and how its waveform contains frequency error information that can be extracted. The benefits of a self-sweeping, self-extinguishing topology. Sweep methods using quadrature mixer-based lock detection. The use of digital implementations versus analogFrequency Acquisition Techniques for Phase Locked Loops is an important resource for RF/microwave engineers, in particular, circuit designers; practicing electronics engineers involved in frequency synthesis, phase locked loops, carrier or clock recovery loops, radio-frequency integrated circuit design, and aerospace electronics; and managers wanting to understand the technology of phase locked loops and frequency acquisition assistance techniques or jitter attenuating loops.

3. Record Nr. UNINA9910165006303321

Autore	Reader Capitol
Titolo	Summary of The Case for Democracy
Pubbl/distr/stampa	Cork, : Primento Digital, 2013
ISBN	9782511001882 2511001888
Descrizione fisica	1 online resource (23 p.)
Disciplina	341.20934589
Soggetti	Democracy Human rights
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Title page; Book Presentation; Book Abstract; About the Author; Important Note About This Ebook; Summary of The Case for Democracy (Natan Sharansky (with Ron Dermer)); From the "Evil Empire" to Perestroika to Freedom; Is Freedom for Everyone?; A Free Society and a Fear Society; Stability Versus Democracy; Mission Possible; Helsinki versus Oslo; Moral Clarity; A Missed Opportunity; Conclusion; Buy the Book; About the Summary Publisher; Copyright
Sommario/riassunto	This ebook consists of a summary of the ideas, viewpoints and facts presented by Nathan Sharansky in his book "The Case for Democracy: The Power of Freedom to Overcome Tyranny and Terror". This summary offers a concise overview of the entire book in less than 30 minutes reading time. However this work does not replace in any case Nathan Sharansky's book.Sharansky argues that human rights and democracy go together, and he also says that promoting peace and stability in the world is equivalent to spreading freedom. Therefore he argues that societies based on fear cannot compete with free societ