
Parametric Amplifiers

parametric amplifiers and upconverters - tuks - parametric amplifiers and upconverters introduction since the early days of radar there has been a strong demand for more sensitive microwave receivers. because microwave receiver sensitivity was, at that time, limited by noise generated inside the receiver, it is equally correct to say that there was a strong **cyclotron wave electrostatic and parametric amplifiers** - wave parametric amplifiers (cwpa's). an alternative is the use of a quadrupole electric field which also has a sinusoidal longitudinal variation but no time dependence 16,23-28 **parametric amplifiers and oscillator - nii** - parametric amplifiers and oscillator a device exhibiting a negative conductance, such as a tunnel diode, can be utilized to construct an amplifier and oscillator. a laser is also categorized as a negative conductance ... the noise in a parametric amplifier is generated by the circuit conductance $g_s;g_1$ and g_2 . **Josephson-based parametric amplifiers for quantum measurements** - Josephson-based parametric amplifiers for quantum measurements applied physics and physics, Yale University N. Bergeal (ESPCI Paris) ... degenerate vs non-degenerate parametric amplifiers 4. amplifier based on Josephson ring modulator 5. squeezing ... parametric amplification with Josephson circuits Yurke et al, Phys. Rev. A 39, 2519 (1989) ... **design of rf and microwave parametric amplifiers and power ...** - design of rf and microwave parametric amplifiers and power upconverters approved by: Professor John Papapolymerou, Committee Chair School of Electrical and Computer Engineering Georgia Institute of Technology Professor Ronald Harley School of Electrical and Computer Engineering Georgia Institute of Technology Professor J. Stevenson Kenney, Advisor **high repetition rate automated optical parametric amplifiers** - optical parametric amplifiers the spirit-opa advantage • built and optimized for spirit ultrafast laser • high repetition rate operation (up to 1 MHz) • computer controlled operation ... the spirit-opa® is an automated collinear optical parametric amplifier (OPA) **3.4 centimeter cryogenic parametric amplifier system for ...** - amplifier system for radio astronomy Joe I. Halpain a low-noise microwave receiver was designed and fabricated to provide the necessary sensitivity to detect the helium 3 line. in order to achieve ultra-low noise amplification in the input states of this receiver, cascaded non-degenerate cryogenically cooled parametric amplifiers were used. **fiber parametric amplifiers for wavelength band conversion ...** - parametric amplifiers and wavelength converters [6]-[9]. in addition, there has been several papers presented on generation of new sources by utilizing the parametric process in fibers and semiconductor optical amplifiers [10]. however, the intrinsic polarization sensitivity and channel crosstalk problems, as **classification of parametric amplifiers and converters** - 54 parametric amplifiers figure 2.1. schematic of a parallel-type parametric device frequencies of the generators 10 and 11 are non-commensurable and positive, and that the frequencies 11 are of the form $\omega_{ii} = m\omega_1 + n\omega_0 = imn$ (2.1) where m and n are positive, negative or zero integers. in the series-type configuration the parametric device is as shown **quantum wideband traveling-wave analysis of a degenerate ...** - quantum wideband traveling-wave analysis of a degenerate parametric amplifier Carlton M. Caves and David D. Crouch theoretical astrophysics 130-33, California Institute of Technology, Pasadena, California 91125 received March 5, 1987; accepted June 5, 1987 **mwr unit 3 lecture 5 - Navodaya Institute of Technology ...** - parametric amplifiers: the parametric amplifier is an amplifier using a device whose reactance is varied to produce amplification. varactor diode is the most widely used active element in a parametric amplifier. **a near-quantum-limited Josephson traveling-wave parametric ...** - wave parametric amplifiers, this traveling wave architecture robustly achieves high gain over a bandwidth of several gigahertz with sufficient dynamic range to read out 20 superconducting qubits. **squid based superconducting traveling-wave parametric ...** - experiments [1]. in parametric amplifiers, high gain is achieved when the signal to be amplified interacts with a nonlinear medium for as long as possible. state-of-the-art Josephson parametric amplifiers utilize resonant circuits to increase the interaction time of the signal with the nonlinear medium.

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