

# Nonlinear Processing with Linear Optics

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## Abstract

Deep neural networks have achieved remarkable breakthroughs by leveraging multiple layers of data processing to extract hidden representations, albeit at the cost of large electronic computing power. To enhance energy efficiency and speed, the optical implementation of neural networks aims to harness the advantages of optical bandwidth and the energy efficiency of optical interconnections. In the absence of low-power optical nonlinearities, the challenge in the implementation of multilayer optical networks lies in realizing multiple optical layers without resorting to electronic components. In this study, we present a novel framework that uses multiple scattering that is capable of synthesizing programmable linear and nonlinear transformations concurrently at low optical power by leveraging the nonlinear relationship between the scattering potential, represented by data, and the scattered field. Theoretical and experimental investigations show that repeating the data by multiple scattering enables non-linear optical computing at low power continuous wave light.

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web it is a serious mistake for the mistress to believe that a male slave will behave as a slave should without detailed training backed up with persistent vigilance and punishment a slave needs rules and the sure knowledge that his mistress will punish him if he strays from them

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web 1 5 7 identify the hyperbolic functions their graphs and basic identities in this section we examine exponential and logarithmic functions we use the properties of these functions to solve equations involving exponential or logarithmic terms and we study the meaning and importance of the number  $e$

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web the function defined by  $f(x) = b^x$ ,  $b > 0$ ,  $b \neq 1$  is called an exponential function with base  $b$  and exponent  $x$  here the domain of  $f$  can be explained as a set of all real numbers let  $m$  and  $n$  be positive numbers and let  $a$  and  $b$  be real numbers then the

exponential function  $y = b^x$  is associated with the following properties the domain is

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web mar 27 2022 a common technique for solving equations with unknown variables in exponents is to take the log of the desired base of both sides of the equation then you can use properties of logs to simplify and solve the equation take the following equation to solve for t you should first simplify the expression as much as possible and then take

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web in this section we will discuss logarithmic functions and exponential functions the exponent rules we learned last section also apply to the exponents we see in exponential functions so here we will focus on the relationship

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