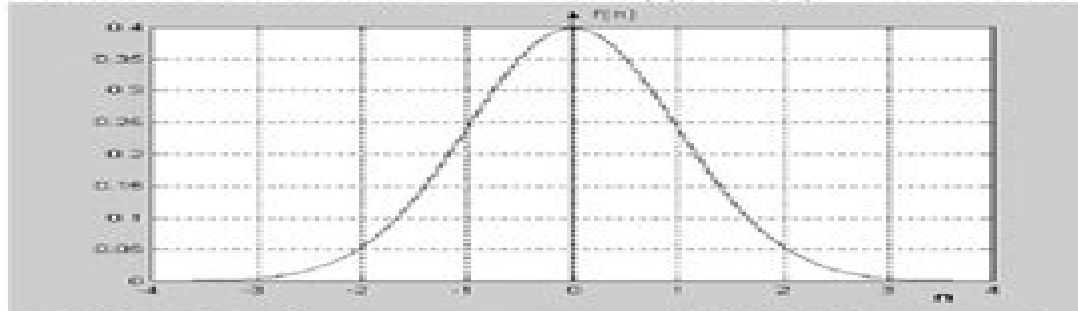


Detection of Digital Signals in Noise

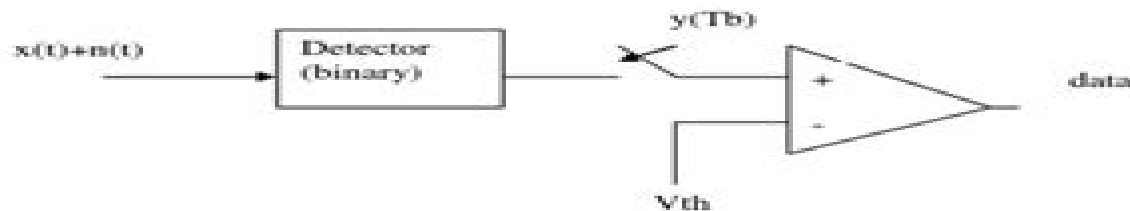
Net Error Probability and Optimum Decision Threshold

Binary Signals:

Let $x(t)$ be a binary signal having two waveforms shapes (one for logic "0" and the other for logic "1"). $n(t)$ is the noise component added due to channel such that the PDF of $n(t)$ is $f(n)$ with zero mean.



$y(T_b)$ is the detector output at $t=T_b$ (bit duration for both "0" and "1" signals). A comparator with threshold voltage V_{th} is used to decide if the



received $x(t)$ is "0" or "1" according to the decision rules:

if $y(T_b) > V_{th}$ then decide the received $x(t)$ is a "1".

if $y(T_b) < V_{th}$ then decide the received $x(t)$ is a "0".

The problem is to find the best choice of V_{th} such that the overall net error probability (average error prob) of "1" & "0" is minimum. This optimum V_{th} depends on type of the binary signals and the PDF of $n(t)$.

Unipolar binary signals: First we discuss the simplest case if $x(t)=0$ volt for logic "0" and $x(t)=+A$ volt for logic "1" over the bit duration T_b .

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Modern Instrumentation G Silverman, H Silver, 2024-11-01 Modern science and engineering relies heavily on understanding computer hardware and software in order to make effective use of these tools in the laboratory and industrial environments The authors of *Modern Instrumentation A Computer Approach* have succeeded in producing a highly readable source that will serve both newcomers to the field as well as experienced professionals Including both fundamentals and applications the book first describes the role of the computer in instrument systems and provides numerous practical examples The second part of the book explores specific software packages and their capabilities for applications such as instrument design and simulation data acquisition data processing and the potential of artificial intelligence in instrument design Because of the full integration of theory with practical applications of leading software packages this book is an extremely useful reference for those who use computer based instrument technology for data acquisition and who are involved with hardware or software development for laboratory and process control The British Library General

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 biggest names in music Join the 50th anniversary party in a nonstop celebration of American music *Scientific American*
 ,1876 Monthly magazine devoted to topics of general scientific interest **The London and China Telegraph** ,1888
Books in Print Supplement ,1979

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