Lecoi: Intooduction

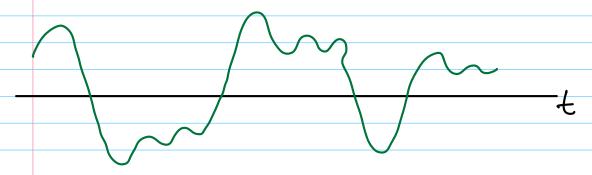
Signal's, an unformal definition, are function's of one or more underendent useriable. Typically carry some kind of unformation's.

be used to Process signalis.

Ex: Speech signal (Aist pressure as function of time)

(Untinuous Time signal (one dimentional)

X(t) = signal, function of time



Sideral,7 com ofconsis enott: gimentionos

and they read our may not have independent

et a boughtness (hovisantel, vertical)

two dimentional signal.

- =) The sindependent variable's would typically be continuous, but not time variable's
- # Simply for convenience, we will have a tendency to refor to the winderendent variations when we talk about 2:grad's as time yelds whether or not they really do Rappagagas of



J.B.J Fouriers
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responsible for the eleg
and & Recently of lot

of concepts.

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Jonage in a signal as a function of Brightest with hosited lessed with some of the second lateral

Town focus in stellarited to 1-0

Signal's. we will use 2-0 signal's

essecially images very often to illustrate

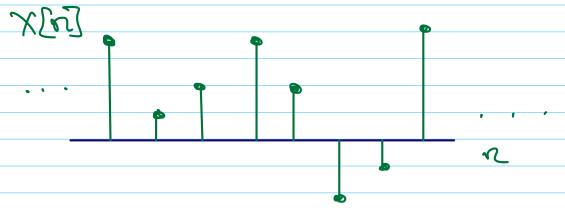
variety of concept's

=) SPEECH , Images are Continuous

Time Signal's , because they are

function's of continuous variable's

POISCRETE - TIME



without to is larger ett smit et expersion on a formation of an interpretation or for

Ex: Economic time sociel, stock montret

multi Dimensional Discrete-time-signal

x [n, m] x

which the source of the constant of the co

Systems and somewhat successes the successes the successes with the successes the succ

book your sustants, system's one your land to deal with because they are defined to deal with because they and dealing on dealing.

One will do it an afferment to exploit some upon sure specific, and see Useful to the state of the control of the

System's

timesumis - smit, rogail-Moll

two warming on linear time and life 2000th

of Brief glimpse of scene of the mind of things

interconnection's of system's (1) Sovies (2) Parallel (3) foed BACK imterconnection's Consise. Consise. Consise. Consise. Consise. Consise. =) um a situation where we have RASically unitable systems feed RACK is often used to stabilize the system. nu out, inwand loreness ero erent Particular that we will find convenient cloness to methodomerases and entrylome all not imsters bons 1 Time Domain $\chi(t)\chi$ X[U]

(2) Farquency domain

Fourier transform

Laplace transform

2- Transform (discrete time

Countor Port of Laplace)

Ex: A note being Played

- Hime domain representation would be time.
- fred content of the woter.

 Orzestand to the retresentation of past of the world pe