No.	
-	Assignment 1 Shehwat Sheh
	60004220126
	BE compu C22
DI	Explain Paouse rals Energy Theorum.
	-> Parsenals energy theorem is a jundamenter principle in
-	Signal processing and Jourin analysis that relate total
	energy by signal in time domain to total energy of
	its reprendation in the treating Johnson
	Definator.
	It states that total energ of a stimal is earla to tot
	enersy of its fower transform.
	$ X(t) ^2 dt = X(t) ^2 dt$
	-8/
1	
	Where.
	x(t) is time domain signal & x(f) is its
	Jouenes transorm.
	Time domain energy is calculated, as
	$\bar{t} = \left \left x(t) \right ^2 dt$
	-06
-	The theorem illustrates the primaple of energy comments
	in signal indeating that regardless of whether me
	synal is anawred in time or greancy domain
	the total energy xemond marines.
	It and in analyzay the distribution of energy such
	as audion composition
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2 3 application of DSP.	
(1) Audio & speech processing	
This involus manipulating sound signals to improve quality	
enable communication or extract meanight information.	
DSP techniques are essentia @ jiHerry. @ speen	
Acommen are some of the examples.	
D Steetstreat igenal processy.	
This deals with analyzy and interpreting signed	
that are offered by noisi and uncorporates It	
Vers startified noteds	
O Estrution @ Detectors there help identy y parmy	
a) syral amidst noise	
~ .	
Dote Conpresson.	
This implies reduces amont of Late rearies to	
represent a syras without significantly devadors	
Villaint,	
1 Hayorm codin & Lossey wmmmon,	
write short noter on.	
) notelly / KL transform	
This is a statistical techniare used for dimensionally	
sediction and gratione extravor	
16 10 10 1 A	
rando- maria unto moto	
randon procus into orthojonal porcomponents.	
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TON EDUCATIONAL USE	

ii) Moving average netwood for thresholding
This is used for thousholdy. is determined bout on
average volus
wi) Herathe thresholdy
It is on adaptive thougholdy technice used for
maje segmesons that adjusts thoushold somed on
proced menites betweenty.
,v) Multivariate posetholdy.
This is on exterior of touthord thresholby. Instead of
delyng on a single intensty value this metal
Utilees multiple features,
V) Thes compression algorithm.
widely wed lossy inge comprenson technic that
reduces file sie while martery acceptable inge
arely The single is converted Itom RGB to
ULBICI. Each 8x8 Hod of prob
onderso Det
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