DSP - A - $13 N$
unia alizriate








$$
\begin{aligned}
& \text { - hnia -has } \geq \\
& \text { - altar a } \\
& \text {.nex pol. } 3
\end{aligned}
$$



- 4 arm ale ans
- Nas átit oxal olna vime sery yife xugas ink tita ka wherits abran

 Fitch kn twan त्रि *
 - Ji. nin pe $(3 x$ nar anis
 . F $\mathrm{B}^{\circ}$


 - rar for aben to algin ac, -'nja kin
(Ml poles pai) as Pk aokt if - AR posi asin kA1 non. -ky 4 e Sand-aghan siont enapure onas PixDenc ant 4 C. (x) J.


बित $\sigma$

- priv gyndon ar foriz an
? ina flime ive axom -kja30.


Linear Prediction Coving
 : penta ani kio aza jur

$$
\begin{aligned}
& S_{n}=f\left(S_{n-1}, S_{n-2}, S_{n-3}, \ldots, S_{n-L}\right) \\
& s_{n}=a_{1} s_{n-1}+a_{2} S_{n-2}+a_{3} s_{n-3}+\ldots \ldots+a_{L} S_{n-L}
\end{aligned}
$$


 $s_{n}=x_{n}+a_{1} s_{n-1}+a_{2} s_{n-2}+\cdots+a_{1} s_{n-2}$ anve in min Thine $\sin$ .anmon
 - nan in knye jame de
: arinen yogur thas


 - joen ans tor at dedr
 andir al ajgot alky p aron liman alawo arne


- finen ax

 - Djele ahan cítá aijhy pinbial ande aige per el minen ajs nosta
 dits hije jom. - (a)hut a archme no aces brom lje an' wan in ( तuls axci
- (stoil) masking

.ic ae pr xalej infék le alrlpyin mion ani ile
- Dundon bijen äx aink yue nemts a

laz kops




peljen ar afyon ac -jer mar - ADPch - ajer lokipps - i you no per

wur
war
mimennenjen
pghnat a.r yger Alerenl is Nañ sure-ABS 8 kops - (aarl je ABs $\rightarrow \Delta$

216103
modem



- D.eafie lin borati as lijor





LPF ab<a on puimid p.o efnl alad
 ald ab
: Dicald 3 anger rond as je


- lingolea rnat $\rightarrow$ हan
ee plo J.wncolle uxto p renr aboen f re OSI ralk \& eigy con man pijgan jue fax. Whin nam yf - न. (hicalch nara) pil phit


 $s \rightarrow \begin{aligned} & \text { Source } \\ & \text { encoder }\end{aligned} \rightarrow \begin{aligned} & \text { Channel } \\ & \text { encoder channel }\end{aligned} \rightarrow \begin{aligned} & \text { channel } \\ & \text { decoder }\end{aligned} \rightarrow \begin{aligned} & \text { Source } \\ & \text { olecoder }\end{aligned} \rightarrow S$
, and lúj nỉmDjic 88 na 5, source encoding coed

- IC 33a dinh a aner rivi





 da a alca jucokin tilje nistar odo


$$
\text { ? } 15-r \text { o ip a } k
$$


ank sin iy no fa


-ak asner an


- cinge ale kis thas is te in
bilk raxai Gat khe oban Je palent chamel enader-a
 hers ta't pink if ak 5 -chamel encader coed
1a) $\operatorname{aje}$ as Jecoder - channel encter -g $4 . j$ - enter misa a3t 23a pijus - $K$ vasir

 onj xinn than alar $x$ de ande de moo minit.


-a/je jetade ka eani ca-r pin ámin pann
 $\therefore$ jen mi ld जan AR ex


$i=-650$ tiar $b$-yjas a
- axa Plont +ario tiar 15.

ik, 500 faxu lef as en Piane tha an al : jos



$$
S\left\{\begin{array}{c}
S+N / 2 \\
f_{S-N / 2}
\end{array}\right.
$$

$$
N \text { - Noise }(e x)
$$

$\frac{2}{2+n}$ met rijernin an -


$$
\log _{a}\left(\frac{5}{n}+1\right) \text { м्याs } \log _{0} \frac{S+N}{N}
$$




$$
C=B W \cdot \log _{0}(\sin +h)
$$

$\therefore$ a(nes)
Band ot andisi as -an
NRZ (None Return (to) Zero) - Ji.0 GleDD) nalin.
 $0+10 \Longrightarrow \sqrt{+12} \quad$ one ap तबa


 $0110 \longrightarrow \sqrt{3}$ livk $k$ 水 aितl (p) if her pa)
ejkene Jan $\sqrt{10^{\prime}}$ - jae igne 6 -001) a.ed ho e


Rz (Return (to)Zero) - ajal Da ill a

- (Gin 5 moc)o- 1 pict 6 muin
( (ajken re pojo) timing az.f $1-j$ is dase

. Goom ye

- (ly us odr

- |ra avi pinir aypise pia


AMI (Altinat Mark Inversion) - sasnत rov an.




$$
-\frac{1}{2} v \quad \operatorname{ar} n
$$

nut Jng yi yeie plo at didel ext anent - Jma po fáan al a el y yños


$$
\therefore \operatorname{Con} \therefore \text { NRF }-2
$$

Dok (On Off Reying) - DC kitasili

var Mar
$\therefore$ aknen to -jos luy , is DC jk abe ald


- Hen oh on OBN de
exar aln on $-k$ men - aje mand alje - FSh capr ij) shd ank 6 abin oje antil yid

- askan je ajej ian de-jev alunt Psk . a. arib go anit bilach hoo misa

