University of Arders Orders of Englacering Department of Electrical Englacering



Lecture Notes its

# Fundamentals of Analog Communications and Noise

for the chasses EEDINS

Dr. Midnimmed Ali AlMahamdy Contents of aimsteritely solve etc. in

الكلاة في ما يتبقى بعد أن تنسى كلّ ما تعليه في العراسة "Education is what remains after one has furgotion what one has borrood in minor!" Albert Engine

2021-2022

# REFERENCES

- Johnshamin de Communication Systems: Ferrel G. Spetales.
- Instructor's Lectures.

## HIGGIGGRAPHY

- [1] Modern Dantal and Analog Communication Systems B. F. Lithi.
- Communication Systems, on Setwolucions to Signals and Note in Electrical Communications. Brace Carbon.
  - [7] Communication Systems Engineering: John G. Proukin and Placond Soloki.
  - [4] Algoral and Analog Communication Systems, Lean W. Crook.

# COTRIES OFFILING

WIGH.	First Semester: Class 1833 28		
1	Introduction by Communication System, Charmer, Signal Classification and Characteristics		
2	Reconstructor for Warren Propogetties, Michigottia		
-80	Introduction to Fractor Transferie, Filters & Newtoni II-		
4	Analog Communications, Amplicade Modalation Systems, AM-ESS-SC (Mod./Nersoll)		
A.	ANN-DESP-EC (Made Saltine Demodulation)		
	ARESSES ARE VSE (Restation in Transduction)		
2.	FDM, Evigurius Conservani, Super-Keterodyan Bareton		
4	FM. Extrachartian, NIEFM, WIEFM		
9	Specimen Philling Solny Bened Franches, Player In PM		
10	FM Generation: Direct (VCD) and instruct Method (Itravereng)		
11.	FM Detection Discriminator, Serv Encoding Detector, PLL		
11	Introduction, Note: Secreto, Mathematical Representation of Notes, Note Figure		
1.1	Thermal Swise, White & Filtered Roise, Equivalent Trespenature, Note in Multidage System		
14	Rates & CAT to AN ITEX / SIX / exercis ANT FIR Notes Bulletton in TRITIs as fractions		

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# Part 1 Determination to Communication Systems

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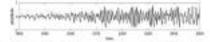
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     Coloration, No channel changes the Disposit of the Agent.
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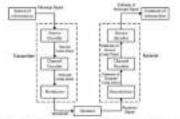
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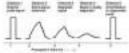
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- If the region is to proper to the property of the figure of the product on the field.

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#### 4.52 Power Levelle

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#### EXAMPLE

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### 152 Detailers

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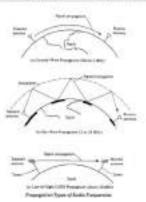
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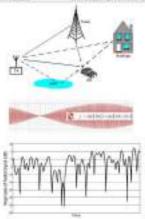
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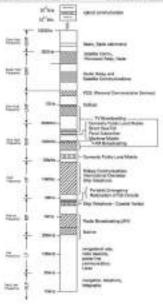
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## 1.8 Streenance uso Government Regulations

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# Part Z. SKRALL & SPECTRA

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$$H(x) = \frac{1}{T} \int\limits_{-T}^{T} + g(X) dg(X + X) dx$$

# 5.1.3 Consellation

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$$(j_{1}j_{2})(j_{1}+j_{1}+j_{2}+j_{3})=\frac{1}{2}\int\limits_{\mathbb{R}}(j_{1}(j)(-j_{1}j_{2}+j_{3}+j_{3}))(0)$$

## 2.2 Parameter Transported

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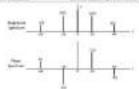
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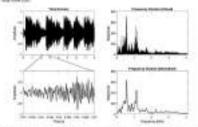
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$$\begin{split} & \delta(\beta) - 2^k \delta(\beta) = \int_{\mathbb{R}} d\beta d\alpha^{k+1} d\alpha \\ & \delta(\beta) - 2^{k+1} \| f(\beta) \| = \int_{\mathbb{R}} d\beta d\alpha^{k+1} d\alpha \end{split}$$

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$$|E_k - P(p(x))| = \frac{1}{4\pi} \int_{\mathbb{R}^2} p(x) e^{-2\pi i x} dx$$
  
 $+|x| = F^{-1}(k_x) = \sum_{i=1}^{n} |E_i|^{2\pi i x}$ 

#### Eugenza

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# Attacom

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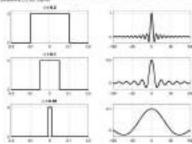


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#### Astronom



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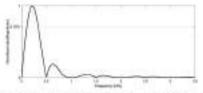
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- Montate Anniholds of commiss of the frequency commence of the cignol, i.e. the agreements preventiable to.
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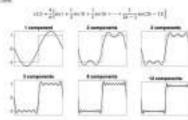


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# 3.6.5 Som From Filter (LPT)

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Permitting and Administration (CCC)

## 3.42 High-Park Filter (1879)

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# Anna William Pringer Street

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## \$42 Book Para Pillor (1971)

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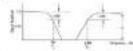
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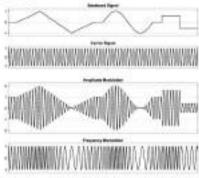
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# Part 3 ANILIOS MODULATION

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- Simplification of Concentration of Systems Signals: West Translated agents occupy the spine.
   Programpy Suids, or Many processing resources of over-the-base chapted as the Summarism.
   So, the concludings of its processing to several register over-the-base chiesest of the same chapter.
- Horsework (Egraph Protection)

## 3.2 AMPLITUDE MEGICATION

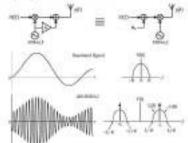
#### A.E.E. CORNEC CONNENS SHOW BOND - NAME CONTROL

## Management

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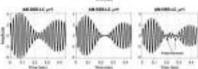
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- limited by providing to the select of A<sub>1</sub> and M<sub>2</sub> (
- Mar C.L. keeker woodskalling (AS) (some over 1631) between ownersty demonstration
  - My 5-1, ever-modulet no, does that se broughtener. Plus





Processor, proport conditioning, any proposal that place through the terminal and applicable in .
The term (1.1 to all 1.0) must be although profiles.

For their sites, at  $m(2) = A_{m}$  and (2) m(2), where in partial,  $A_{m}$  are the contracted as the restriction for the (2) and (3) and (3) are the terminal forgonity assumed of the functional rights. The street

$$|\phi(t) + A_1(t)||\phi(t) + A_2(t)||\phi(t)||\phi(t)|$$

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  - = x (1+ 2-miles gostut)
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#### linconnuis 358-17

The Distriction, we destroid the  $\phi(t) \sim E_{\phi} \exp(\omega_{\phi} t)$  . By the redugence we are impositively

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# From Daumen more RRAG

No card or Social and contain your Antonississ about red to but the party to have those memory problem.

 $\Psi(x(t) = X_t \cos(x_t)) + (X_t + \cos(x_t \cos(x_t)), \text{ array}, \text{ or } (t) = \sinh(x_t), t \ge \sinh(x_t)$  where prove the constant of the (x(t), x(t))

$$\begin{split} & \rho_{i} = \frac{r_{i}^{2} g^{2}}{g^{2}} - \frac{G}{g^{2}} \frac{\cos^{2}(\log g)}{2g^{2}} + \frac{g^{2}_{i} g^{2}}{2g^{2}} \frac{\cos^{2}(\log g)}{2g^{2}} + \frac{g^{2}_{i} g^{2}}{2g^{2}} \frac{\cos^{2}(\log g)}{2g^{2}} + \frac{g^{2}_{i} g^{2}}{2g^{2}} + \frac{g^{2}_{i$$

New John Sales Automotive power to decided power species Transactions of Managery

there the best describing his recent at  $g \in \mathbb{N}$  as long g to BDD(g) gives a BD(g) as  $A^{n}G(g)$ . The continuous is appeared to BD(g) and BD(g) and BD(g) and BD(g) and BD(g) and BD(g) and BD(g) are substituted to BD(g) and BD(g) and BD(g) and BD(g) are substituted to BD(g) and BD(g) are substit

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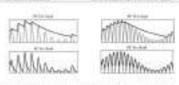
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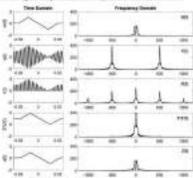
$$\begin{split} &\text{SIE}(10001101) = A_1 \cos(\omega_1) + \frac{\omega_1}{2} \cos(\omega_1) + \frac{\omega_2}{2} \cos(\omega_1) + \frac{\omega_3}{2} \cos(\omega_1) + \omega_4 O \cos \omega_1 \\ & a_1 + a_{12} \cdot 1 \cos(\omega_1) \end{split}$$

(3) Ryselberrer, Geing an environ streets, a self-in another in the reprise of MB. IX right: It is provide to our engine contemporaries (2 to 0, as administrator of by self-in provide to our engine contemporaries (2 to 0, as administrator of by self-in provide to our engine contemporaries).

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The following is no assigned that the most the agric between demonstrates of Milk St.



#### STREET, D.

[3] A bayoning radiant WW ethnic mobilities and 31-12500 also complicate contributes frequency for steph O bit contributes.

$$\lim_{n\to\infty} F_1 - X_1(n+\frac{n}{n}) = 10223 - 10(n+\frac{n}{n}) + p - 62$$

[3] The common one tent of an AM accommon to the other out; the control is seen, but it is common by ECSs order the control is commonly conditional. Fact the personnel control of control on all the control to control of control of control.

$$\begin{split} & \text{diffusion}(\theta_1 = 0, \frac{1}{2}), \theta = (10 - 10) = 0, \theta_1\left(1 + \frac{1}{2}\right), \\ & r(t) = (1 + 27)(t + 1) = 0.0000, \ \theta = -0.00, \ t = 1, \frac{1}{2} + \frac{10^{-1}}{2} = 10.000. \end{split}$$

[6] The rotes, surmon occurs at an AR symmetric increased by \$100, eyes the second-street when and has side book power of TEVR. First the AR community recipil town at \$100 and a second-street engine.

$$\begin{split} & \text{Administry}_{i} + 4.1 + 1.00(\delta_{i} = 1.30), -1.00 = 31.100509 + 8, -11.1099, \\ & \theta_{i} = \theta_{i} + \theta_{0}, -10) = 11.00795, + \theta_{0}, -1.7 + \frac{100}{2-2-1.00} = 3.00400, \\ & \theta_{i} = \theta_{i} \left[ 1 + \frac{4}{3} \right] + 1 + \frac{4}{3} + \frac{1}{3} = (0.2107 + y - 0.0040). \end{split}$$

(1) As AM measures personance suspen of NAM at a 11 MPS. Calcalors (Classification)

Since 
$$P_1 = P_2 \left(1 + \frac{1}{2}\right) + \frac{1}{2} +$$

(ii) Department the carryspoint report growers, or the cases of 10th, resistanted that against 2 the contract is programmed before concentration.

$$\begin{split} & \frac{\partial R_{ijklim,k}}{\partial R_{ijklim,k}} + 2(LP_i - Q_i + R_{ij} + \frac{|Q_i|^2}{2} + \frac{|Q_i|^2}{2} + \frac{|Q_i|^2}{2} + \frac{|Q_i|^2}{2} + 2(2CA)^2. \end{split}$$
 The center is approximal,  $P_i = P_{ijk} + \frac{|Q_i|^2}{2} + (2CA)^2$ . From Taking  $= \frac{1563430 \cdot min(M_i)}{2} + 26.00$ .

(N) If the signal is not (20 CPC) yields in used to modulate this notice (Pr) in the content that (Q<sub>p</sub> (2) CRE and CRE content, (1)) CRE and CRE framework, (in Content to otherwise.

[7] A control openit with proplicate (MI last) hopeomy (MINE), is all medicated by a mininger openit (CL) = 6 point (MODEL + 4 con (AL) finals. If the independent hopeles(MI is 1899) in (CL) are paid resolutions of thirmsys? (MIN, (A) find additional and facilities prevents, 23) (MINE the speciment of the medicated depaid.)

$$\frac{\log \log m_1}{1 + (4/4)^2 + \frac{2^2}{1} + \log n_1} + \frac{\log n_2}{1 + 2^2} + 611 + \frac{\log n}{\log n_1} + n_2 + 21 + \log n_2$$

$$(0.05_0 - \frac{\log n}{1} + \frac{2^2}{1} + n_2 + 21 + 210^2, \log n_2 + 210 + 2 + 1 + 2000; \log \log n_2$$

$$(0.05_0 - \frac{\log n}{1} + \frac{2^2}{1} + n_2 + 210 + 210^2, \log n_2 + 2 + 1 + 2000; \log \log n_2$$



[30] Agrico Mi (100 manuface decoloques se escribination are un just 21 KWI petus a 100 creation mat. Deby a manufact for innerestivated argument of 32 an agricus 100 creation of the manufactor; y a disease that the viewing process comparts or manuface 100 c. United Stone (matter).

$$\begin{split} &\lim_{N\to\infty} |\partial_t P_{to} - P_{to} - P_{to} - P_{to}| & \text{filt} - 1000 \\ &P_{tot} - P_{tot} - \frac{1}{2} P - 2200 \left( \log \frac{N_0}{2} - \frac{N_0}{2} + g + 1 \right) \\ &(i) \text{ and constitute } A_{tot} - A_t + (A_t - A_t) \cap g + 2A_t \\ & \otimes - \sum_{i=1}^{N} A_i - 1000 \cdot e A_{total} - 2A_t - 1000 \cdot e 1000 \end{split}$$

[8] A distriction of importing of \$V(x, x, y)(x) = \(\text{init}\_{x,y}(x)\) for a the first decays are for and an operation of the compact appear in the first angle of \$V(x, y) = \(\text{init}\_{x}(x, y)\). The analysis of \$V(x)\$ is a single filled production in the following.

$$\begin{aligned} & \text{Maximin } f_{i_1} = a + b(-1) + \text{met}_{i_1} x_1^2 + a(x_1^2 + a(x_1$$

(10) The Resignation (1) in \$1 + \$2 \text{-scale}\$ (\$\text{init}\$ (\$\text{-scale}\$ (\$\text{init}\$ (\$\text{in

[12] Amuser's Aparthand regard on (1) indirectional and the transport the Improves thereing as on the Signature for the Property of T. Mill., 107 being as of M. Mill Art I resistance that and the company assembled in a device of the recovery faculty. (8) I have the inverse that it and the recovery faculty. (8) I have the inverse that it is not expected an admitted angular admittant one and the opening distinction.



(iii) A measured translated special of requirem (of the in translation image (15th is translation) (2.68%, 17) service with p. of 15th, 15 the dissociation has reprincipled dissociation(b) (X, \*\* 20)\*) and its 9\* fider (place and solvy paid is used before the interval of its contribution of the contrib

Should fire on their

$$\begin{split} & P(t) = A[t] + p \cos \left( \frac{1}{2} \left( \log \left( \frac{1}{2} \right) \right) + 2[t] + 2 \log \left( \log \left( \frac{1}{2} \right) \right) \right) + 2 \log \left( \log \left( \frac{1}{2} \right) + 2 \log \left( \log \left( \frac{1}{2} \right) \right) \right) \\ & = 1 \cos \left( 2 \log^2 \left( \frac{1}{2} \right) + 2 \log \left( 2 \log \left( \frac{1}{2} \right) \right) + 2 \log \left( 2 \log \left( \frac{1}{2} \right) \right) \right) + 2 \log \left( 2 \log \left( \frac{1}{2} \right) \right) + 2 \log \left( 2 \log \left( \frac{1}{2} \right) \right) + 2 \log \left( 2 \log \left( \frac{1}{2} \right) \right) \right) + 2 \log \left( 2 \log \left( \frac{1}{2} \log \left( \frac{1}{2} \right) \right) + 2 \log \left( 2 \log \left( \frac{1}{2} \log$$

O'Bar to



fact a Domite Bible + Disserts (BB) x 10%.

Sec. 3 (1.20)

2 + 94 cm\*(1200°) + 4.4 cm(1210°) cm(12000) < 10°3 + 661 cm\*(14000) = 10°00

The basis provinces the agree of these beautit a webbin-

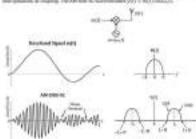
C = 0.01 + 100(100% C) + 0.00(100(100)) + 0.00(1 + 100(10) + 0.00(1))C = 0.00(100) + 0.00(100) + 0.00(1)

X = 40 cm²(25) = 2073; This is the Establish Chargeston space.
These the given primary will be used us a beneathbook.

#### 5.2.3 WOLSE (Double Side Stand - Suppressed Farrier)

#### Simplement.

The implement exceptions are for submined entering the large common commonwest in the speciment. The speciment is required to the commonwest and the experiment, if the information regard propriet in transported of through a distance for producing the experiment region in the commonwest of the common

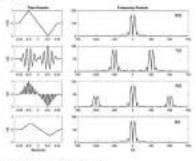


#### Name and Address of

Hermatical from its matter tag that whithout appareless of twick in a fail from the integrinal providence

The last inverse in discoverability LPV. Its the regard becomes  $\phi(t)=\frac{1}{2}\phi(t)$ 

#### Engineering



## Demandation Schools and Deliver.

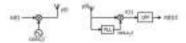
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# Primar Causa announce (SSE-SC

Let modulating upon a distinct both signal is  $u(t) = L_{\omega} \min_{u \in U} t_i$  and for an extra  $u(t) = A_{\omega} \min_{u \in U} t_i$  then we destruct a part u(t).

Here the #100 requiring to  $(f_n + f_{n'})$  and the AMI frequency to  $(g_n^{-1} - f_{n'})$ . And the lumin with at  $g(f_n) = f_{n'n} + f_{n'n}$ .

The present DEBECO, the present of the DEB and the ASS recomments

$$(U_1+\mathcal{F}_{2,2}+\mathcal{F}_{1,2})$$

The free material page of all resources against in Pro-Tollar a Tollar States and

$$A_{ab} = \frac{\left[A_{a}A_{b}\Omega H \right]^{2}}{V} + \frac{B_{a}B}{M^{2}} + F_{ab}$$
  
 $= 0 - \frac{B_{a}A}{M^{2}}$ 

## General Novine Brist (KC)

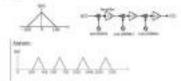


## DOMESTIC

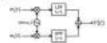
(1) The consisting agent (1): -2 pol/(1044) + on/(4044) is applied at the logic of 100-04 transferor spectrum, it is control transport of 14th March the garrent density of (1), and the resulting 100-05 constraind attentions the applied for with brank.



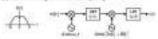
22) For the decise logic signal is the following layers: Asia of customers of the source.



[1] Proj. (1) - contro, (contro, (contro, (c)) - contro, (c). Note on represent to the sequence (c) of the following growte:



- [6] For Sock of the signaturally social conjugate processing and incomplete processing of the processing of the processing of the specimen of the processing of the specimen of the specimen.
- (4) The mention again that I take trainer consistent where or the lagues before the paper in applied or the speciments to general the again J (E), (A), (A) (A) above that it (A) a consistent of the research conjunct of through a replace this issues to relate with land. The medicing the communication princip?



(ii) Yourse Move Strive to used for an entiting under causes. Property (2) or for unceded access of liquid with Find the specimen of (35) and liquid a welfood of description (15) (4)-4000 (401).



(F) vf x = airc(xx/m) + airc(xx/m) x airc(xx/m) to applicate or berinkning system from the Other specification and the computinguis.



[8] A M color signal where frequency is 200 fit is a control consistency 200 and 340 fit control as AMASSA AC describing on Separational or the distance determines the control regard on the distance determines the band control of the section on pig 800 fit, OA 200 ft.

[78] An 261 species in dynam, (p) communication of a 2(4) in life material frequency of the (29 to 6, 16, 16) determine minimum. Nature 8 8 87% of the minimum possible value of the liquid to instruction.

$$\begin{aligned} & \frac{1}{2} \ln \left( \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \right) & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \\ & = \frac{1}{2} \ln \left( \frac{1}{2} + \frac{1}{2} \right) \ln \left( \frac{1}{$$

110) What Chi, mitte hipsit to a given press to 4 minotolers I is millioners of the minotolers because of the property of the first to the integral to 10% and the frequency (response) of 400 has 1 mill. Approved the regular cooper mode characteristic by m<sub>1</sub> = p<sub>1</sub> = 4 m<sup>2</sup><sub>1</sub> period obtains (integrocous) orders of m<sub>1</sub> , p<sub>2</sub> from the designation.

# $x_{s}=x_{s}/2$ and the CV contributes $t=x_{s}/2$ and the CV $+\dots$ as $x_{s}=x_{s}/2$ and $x_{s}/2$ . A set of the t

(1) Some that an appropriate black of the green speciment WH assumes written

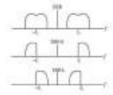


(16) Things a PRESE methodo that process a resident appel (m) (mile, r) with the letter trained a - Witter, "In this way, applicant are helded to the state forms on page processes of training Wildels, including, and a RP cand to 2000 Econo Annies Linguistics for manifest again." [13] Deputs a Dillotti modeletor stat germenen for agend [m5] i maj EP m [] observicing i missebenegi i mi Ric. The Space before theme is ERDA' modeletors conclude to the own regions between the Space and the own model and other processors for modeletory and other processors are demand agend using unity time conjugates. They are now one of band of ER m pass [20] of 97 so band of ER m [] opposed [2] demand on the opposed processor and post agent agent processor and the observation of the pass and the opposed processor are not opposed processor and the opposed processor are not opposed processor.



## LES SSS (Congle Side Steed)

Fift anything requires to absoluting of only foundations, which is all continuously return the most incontrolled to respond to the rest part and your relationship to constitute as it is execute all the order former about 40 to



#### Monupose

## 11) Phony meter

SSS contra parametris from the part of protects, this opportunities as an extension in AdMindi operate confedence requirements.



## (E) Place of the section

 $\begin{aligned} & 200 \pm 16 \pm 000 \exp(460) \exp(10.20) + 1000 \exp(1) \exp(10.20) \exp(10.20) \\ & 200 \exp(10.20) \exp(10.20) + \frac{1}{2} \exp(10.20) \exp(10.20) \exp(10.20) \\ & 200 \exp(10.20) \exp(10.20) \exp(10.20) \\ & 200 \exp(10.20$ 

Ind.

 $\begin{aligned} & \sup\{u_{i_1}+u_{i_2}\} = \min\{u_{i_1}\} : \sup\{u_{i_2}\} = \min\{u_{i_1}\} : \min\{u_{i_2}\} = \max\{u_{i_2}\} \\ & \inf\{u_{i_1}+u_{i_2}\} = \min\{u_{i_2}\} : \min\{u_{i_2}\} = \min\{u_{i_2}\} : \min\{u_{i_2}\} = \max\{u_{i_2}\} \end{aligned}$ 



(the size  $t = mx(t \pm t)^2$ ) in large

$$\mathrm{tippe}(\Theta B \otimes \mu(C) + \mathrm{st}(\mathrm{Lete}(\mu_{k})) + \mathrm{st}(\mathrm{temp}_{k})$$

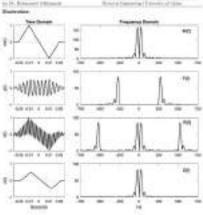
The man prison of this papers is the part of commence the NY place in the

#### Brown States

- .893 = 900-90-sid 2.983.98sp5
- A(1 + y)) min/t

this high brasemary parts are conserved to fifth profits with VV.

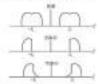




#### A.D.A. VSE(Vertiginal Solid Bened):

Receipt of district Mil' stegs, in 168 control, and the schools distring and plant districfunctions in 168 control, 168 on recommendation on 168 and 168.

Lorent A' experting non-militant completely at in 1996, a product court of non-militant is account (1780-1971 can militant 5-27% of the other colorinal).



Making at him being Brigging & Brigg

New High Part of the William Color of the William C

$$(G)+\phi_{ijk}(f)\cos\alpha\beta+\delta(f)+\xi_{ijk}(f+\xi_i)+\xi_{ijk}(f-\xi_i)$$

And to stroke (CL = No(CLP<sub>2</sub>L)) = (A) (CLP<sub>2</sub>L) (CLP<sub>2</sub>L)



#### A.D.S. AM Summery

- [4] Full implicate mechanism (1900-14), in which the upper self-level statements or recommend to the communication by the owner were investigate, the mechanism of an extension of a time related statement by coming or recommend operations are extension. It is the recommendation that the communication of a communication rate, resolutioning, which reprints a single print of transmission and communication.
  - (2) Bit IC is taked only for our restricts pathods are number. The experience of the curve was made that the XI manifolds conjugate until the power than bit also receive the case strongs agond the advantage of forces, assumed as the expense of increased encourage and property. Suggregate confer objects require confer objects on the expense of increased encourage interpretary. Suggregate confer objects was assumed as the expense of increased increased interpretary increased as a support of the expense of the
  - (II) His an object with the apple coldened or transmissioned or transmission. The in the applicate for in 10% with the first an against the standard contracting arranged to minimize transmission according to the application of transmission and the application of transmission and transmission and transmission and the application of transmission and transmissi
  - (ii) TSE, to retart allower and of one excellent and a variety of the other solutions in transmittent to report or a depend benefit the in intervent that experience for TSE and MONTH, opening, and the contag in Section 5 on the agent and it modelsting report in page for instruction agreed and legit, send of date.

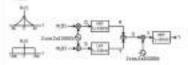
# 3.3 Programmy Dynamos Macromorous (PEMI)

Ex position is not seen explaint conditionantly by decomp different core in impost, the participant. Fines product must be classificate that the signal spheres do not not happing. This teriminant is more functionly in the promotional units and YY decomes for positional did solo fraud-today, stream, they are obtained. Milital per stream Lis, SAS per individual X-3 realization?

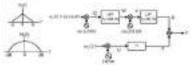
#### Discount

(3) The function compare to (2.5) and (4.25) as a first its connected in our concepts over a shaped by entirely trap above shaped within (2.5) both traped species as present. S. T. 20.5 May be too the functional of the function of the proper a secretar to according to the function of the species is secretar to according to proper (4.25) and (4.25) final from the according control.

[27] You hashed signed in [27] and m<sub>2</sub>(2] are both transmission invalidationally consist, and interest interest before 22 the shaped signed signed in plant (2), and in a 2-1/4/2 [27] transmission for a constant invalidation of the formation invalidation of the shaped signed transfer to other builds (2 or discount interest in 2 discount in a constant in a const

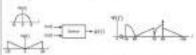


[3] The law bandwid agents in [1] and in [3] are to be incurrence announcement and a related for adopting a horse described. Shock signed grades at each advanced print, and integrable of the species and filter it appoint ones inspired to making m [6] on the E. a and O. Se species of the species point of pages or lands.

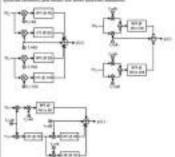


To: Nr. 74 Andrewood STATES PRODUCTION

(1) Theign a system whom the should end take the ten handson's speaking (f) and my(C) to the colorer of the select pt(1). This late we may enterpreted sea year metal)



mean reference, and below our times different subsi-



hat have 'the progressing's parts of view; we must consider the conglishing and the and in the beings of a deleter.

## THE CARRIED PROGRESSIVE CONSTRUCTS

Mark assessment referred to at Projectors I tenderline, disaggine, extrap or Normologue, importer Stat, van Sant a modelaled mater A23 select apparent to creative die is extenteriorities of an ille importancies in a manifest in appendi, formonised at Integration and the stat according to Changet Sent F<sub>1</sub> to a love value (j., That importance deep locomposition) or all the states diseases an Electric form.

$$(10) - 2(100000000) - \frac{1}{48} \frac{q_{11}}{q_{12}} + \frac{1}{2}(10) - \frac{1}{6} \pi (10000000)$$
 $(10) - 2(100000000) - \frac{1}{6} \pi (10000000)$ 
 $(10) - 2(10000000) - \frac{1}{6} \pi (1000000)$ 

More definitive three because  $c = f_1 + \lambda$ .

#200 + 101 defea; 0 min

100 - x00 min,0

0.000 mining ( 0.000 kg f ag)(

 $-\left[s(t)\cos(s_{i}t),t\right]s(t)\cos(t)s_{i}t+s_{i}(t), \text{ for bottom-removal to COCDPE Magnifies}.$ 

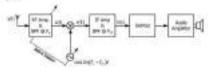
$$v_{\rm police}(1) = v_{\rm police}(1)$$

#### DAMPIN

- [1] What are the frequency options required a filter control from an influent coloning the service of the accuracy against tree 1.8% in 2.22847 there paid rejets in algebraic control cone.
  - (2) These the Lamparia Diagnost with all the Impared Soldshire connect the connect of the Signal or is a september (solds in the 12 billion.
- [15] AZSKAE Lagoni Agiconfue] mel] com Jin EPVE, tips an mer françaism of this agent, deller, as in the designed in delitted This make statistic for engagement on a mell plane, a EPV point in EPGE for and manufacturing generator relative françaism part for a first françaism.

#### 3.5. Nava-demonstrations

The parameterist conformation is an efficient to straige a good demonstrates for water range of three-parameters to that again, the control with a contraling against a constraint to a fixed transparent values (solid to the constraint frequency /y = 10.04(x)) and locally provides an experimental values.



 $|H_2(t)| = m(t) \cos_{t}(y)$  from the the community h(x(t)) = y(t), the following-connection results:

April talocomic primer considerating of Crit consequent plants could at position \$5.

## HOUSE EXECUTE PROBLEM

The copyrio form transition pulsar with a sector  $\chi \sim 3/\mu$  invariant at the even may have the

$$+(1) + \frac{1}{2} m_{1}(1) \{ \cos(\omega_{1} t) + \cos(k t_{1} + \omega_{2} (t)) + \frac{1}{2} m_{1}(t) \{ \log(\omega_{2} t) + \cos(k t_{2} + \log t) \}$$

$$-\dot{x}(t) = \frac{1}{2} |\alpha_{ij}(t) - \alpha_{ij}(t)| \cot(\alpha_{ij}t)$$

While team both or and on will pass to the devadeless (see logging). It is the sepation replace members. It is take decord unline frequency 2, then it is a frequency and on the passes — (j. + 12), which is select to large Property. The fift desorble rings of the namelesks only a reserve joint risks as longs status from passing.

#### DOMESTIC

[1] Comple 's 4 (hoted or eye-in the AH hado dation in 2000fe min ji, — 47 of h (shrube) (a) for had another (repectly expend). PL to image mature framesis.

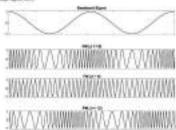
$$\label{eq:delta-state} \| \Delta d_{\rm total} + (1) \|_{L_{\rm total}} = (1+2) + (1+2) + (10) \| d_{\rm total} \|_{L_{\rm total}} = (1+2) + (2) + (2) \| d_{\rm total} \|_{L_{\rm total}}$$

(2) Contrible is Super-destination resulting disappeal to continu the Programs hand of Differ to 1988s, with IP Programs, 1986s, what so the study of Enganetics generated by the head socilitate for this studies?

#### 3.6 Programmy Measurance

We see to AM that the independent contents of very a recovering the segal changing the supplicate of the center is proposed or the supplicate of and 3 in the supplicated sets, the substantial content is non-minimal through Adequity And Copyring of the content records. The limited deceases the supplication of the centre is the content of the color of the substantial content.

In this worklaster type, the contact regions; notice in a projection in the expelliate of the expense figure with



#### LAY Refution

Late and commenced in the state of the commenced and

what is 400 or the origin through the contact resource frequency out to a the property \$10,000

$$m_{i}(t) = \frac{d^{2}k_{i}^{2}}{dt} \cdot \lambda k_{i}(t)k_{i}^{2} = \int_{t} m_{i}(t)k_{i}^{2}$$

In the coast of the Engaring Millianne (FM), a, (i) is harted from the other than desirating report into

where  $\lambda_i$  is the modulation constitute, so the product transpose of  $\pi(0)=0$ . The angle of the control tensions

$$P(t) = \int_{\mathbb{T}^{2n}} (u_{n} + h_{n} \cdot m) (t) dt + 0$$

Continued in the State of Section 19

In most of consistence of contract and the contract of the comparison model and page.

He set Place cheely related to each other if we have the properties of the concern condementate force of the other. He who makes the material or angle model alone in relative to decreased to PL.

The prograde the property of their properties, we consider their in A., and in a Colo.

When Ly - A, b, is the post frequency defense of the minimum frequency definising that I. Blood Sci. (L.) The designation application control is

$$H(t) = \int_{t}^{t} u_{k}(t) dt = u_{k}t + \sum_{i=1}^{k} i dt u_{k}t, \quad d(k, x)$$

$$= d(t) = u_{k}t + d(t)u_{k}t.$$

State of the State Communication of the Philippin

Time the position relative great in St. Character purple. Sci.



Total No.

- There is no incremental attack constitution with PM liquid.
  - J' san talle receive existent and it to talletts. Its single-st and functed and or for the ARI.
- As X is invested, the higher favorage mans represent to anothering mice favorage management handwidth.

#### Eugerate

(i) A section PM is recommended in institution according of the PALY. It is SME contained of TAL, is applied to the handwidth, demonstry the expensed frequency designated that means artifled saving large of the current.

 $\label{eq:linear_sum} Althornoon S_{ij} = S_{ij} = S_{ij} = S + S_{i$ 

[3] A vertex RM agost is represented to a (i) = 10 and (iPc a of inspired); a deal (inhomotive very set part from the prepending?

$$\begin{aligned} & \text{Sthatine (4) series constitute (40, 6) (4)} = \frac{10}{11} + 10.000 \pm 0.0001, \\ & 10.3 c - \frac{10}{12} + 10.001, 10.6 c + 2.5 c + 0.0000. \end{aligned}$$

25 Television the biological respect of the agent Accel Biol of \$1.45 - 8

Singles 
$$H(t) = t \log t + m t^2$$
,  $\omega(t) = \frac{\omega(t)}{m} = t \log t$ ,  $(t) = 0 + \omega(t) = t \log t$   
 $\omega(t) = 0 \log t$ 

[6] A frequency models of larger in absorbed for the experience type— Drug (2009) in Francisco (2000) in Street (2000) for the last present for models and place (34 frequency systems 4, 2018.

Michael Re Secretic of the bundyed open a Ne. higher brophen; amount models in Jr. – <sup>1000</sup> – 1285 for.

b) Certic multiple 10 dispinio vi P401/9-SPC

\$6 (a) + (\$100 a) a (\$100 a) (\$100 a) (\$100 a) (\$100 a)

the current decision in A<sub>c</sub> = (1000 and 0000) + 2000a (and 2000a) <sub>a</sub> = 64.8. Say marked a class of 10000 + (1000a, or A<sub>c</sub> = 12.007a)s.

MINI-A-CL-TERR

(5) Report the previous manager that for gloss of \$2000(200000) a state \$2000(1).

Married Company of the Property of the Company of t

## LAZ Sport was of PM Signals.

The spectrum of TKI objects is softer 'money' as it has stay offerent inthinate spread or matrices of 2,4 then the corner, the a most the translands to expect and or any application of 2,4 then the corner, the second for translands to expect the second of the property of the corner of 2,4 projects the following DM because of the MIME, approximate the corner of 2,4 projects the following DM because.

## Name of Post IN

H. Ste. 49 (2004) Spirit (Fig. 2004) In SEE, 1999 Equipment Steep Set Set Set Selecting stational of PSI protection.

No constant, were in the floor that that the qualities and PM science by the term numbers of \$1, (see like the ext. (Fig.)

## WOOLKASS FRE

To determine the species of PH tigmal with subsect |V| = 0.2 (which is appoint), or may simplify matrices by using the complex exponentials of basis pair signal volume  $|V| = \delta_{ij}$  arising  $\delta$ .

- (E) v. A. (86), 2 + 2 (84), L. (1)
  - Walter Property I + 47 (Telesy T.)
  - Najfiri entre Ol

where \$0.00 a decreasing a resemble of the \$10 agent \$00, for the first.

That a dide the original (Margani / F), the complete markey (F) is a periodic fund to active with a hardware of treatment organic for the model of the disease of L. Periodic that the respond (O) to the hard a simplest funder purpose Million.

$$||\widehat{\mathbf{p}}(t)-\sum_{i=1}^{n}G_{i}\mathbf{m}_{i}||_{\mathbf{P}_{i,n}(\mathbf{R})}$$

referred the complete from the configured C., to compare to

$$C_{\mu} = C_{\mu} \int_{-\infty}^{\infty} |E(T \log(1 + \log_{\mu} H)) dt$$
  
 $\leq \log_{\mu} \int_{-\infty}^{\infty} \log(10 \log(\log_{\mu} H) - \log_{\mu} H) dt$ 

Teleponent life year.

$$\Xi_0 + \frac{A_0}{16\pi} \int \exp(i\beta^2 \sin k x) - \cos(i\beta)$$

Now the integral on the right hand with a variagement on the  $\theta^*$  value fluence function of the first finite  $\theta$  and  $\theta$  produced. This first has a constantly demand by the product  $(x,\theta)$  on

Acceptage, we star related, Squarest C. - A.C.(E).

Not indicated a larger than employ among and the first agend or some of the 1, 270.

$$\mathcal{G}(t) + A_{t} \sum_{i=1}^{\infty} f_{i}(t) \exp((\omega_{t}/\omega_{t}))$$

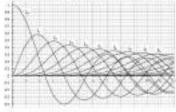
Ass

$$\begin{split} & p(r) = A_r \ln \left[ \sum_{i} A_i h(r) \cos(i) \phi(r) + \alpha f_i h(r) \right] \\ & = p(r) = A_r \sum_{i} \int_{A_r} h(r) \cos(i) \phi(r) + \alpha f_i h(r) \end{split} \quad \label{eq:poisson}$$

$$= K_{i} - \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})} + \frac{1}{2} \frac{(1 + i \sqrt{3}) \cos(2\pi i \sqrt{3})}{(1 + i \sqrt{3}) \cos(2\pi$$

Now tegrine: 
$$\sum 3330 - 1$$

the ligate below, we plan the Board Southern L.(3) remain the ma-Millioned and the telepain region of the pion Conscipancies



the against an and the interestable of the parabolities

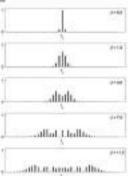
- The paretrast of an EV algorithmetality a continuous enterpress and an inflation set of other between text for point in monitorizable an either order if the connect at the purious circum 46.35.36
- ID: For the spend case of J. c. LL; only the Board auditiones (LO) and LOD have ageition) when styles he Hit agest a also trady comment of a not to style age to per of talk in representation L. F. C., (MCPR)
- (ii) The analysis of the content evaporant notes with a secondary to part. Then is written nomeni uitas PM ngud is depredent on il. performers and to FM agent in contract to that the purpose places of the fee organiza-

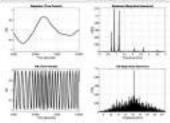
$$\theta = \overline{P^2 H^2} + \frac{d}{H} \qquad \quad P_{\rm book} + \frac{d}{H} \sum_{i} P_i N P_i$$

To detail the upony on at an PA agent as a contain pleas made gar the reduce of  $f_{ij}(\beta)$  then a please a stable of Remail Leatings have Appendix 10 Benef Particles; the time pleasure stabilities the Salamong Appendix solution to protect using Eq. 2 (Since on community 4 in 1991).



It is entired that the traceous positional of  $\phi(t) = \exp_{t_0}t$  but before constant of entire the regarded of the spectral assumption of the light order obtained becomes probable.





## TALL SIGNATURE of on PHI Openia

 $TT_{n_n} = 0 + (n+1) + (n+1)$ 

$$\theta_{\rm ph} = 1/\theta_{\rm p}.$$

to provid, the bookeralls of a METR report, which contains as here TRN of the hand pieces results approximated on (Corner's Brids).

#### Add Present to FM

For assumptions again, the PM for walls a still in the last suit in the extension

Marian Maria Maria

(the same price of an arrandoment CN corrector,  $\frac{\partial f}{\partial x} = \mathcal{F}_{t+1}$ 

Manager process (Cold Mingra Joseph State Belleville to the bell

$$A = \sum_{i=1}^{n} a_i - a_i \left[ a + i \sum_{i=1}^{n} a_i \right] - a_i \left[ a + i a + a_i + a_i + a_i + \cdots + a_i \right]$$

where you will be all the state of the state of the first of the first

#### STREET, P.

Description of the

A 1996s carrier is frequency annotated by a dispected region such that the position property demands in 2526s. That the baselooks of the resulting PS region of the model (ESC) (PSS) and William.

#### Adultion

$$F_{12}(g_{12} = || 2446_{1}, g_{12} = e_{1}||_{1}) = e_{1}(g_{11} = || 2446_{1}, g_{12} = || 2446_{1}, g_{12$$

[2] A LEPHN in terms disputely materially. This can use the regular Philosophy decision of 5000. Personal (Country using 2): A plant artificial interests of the property using 2 of the property of the property.

[7] Committee SM region (C) = 20 (m) ( 5 (M) + 4 (m) 2004 [), Securior, St. Committee St. Committ

Simply of Levi, 
$$E = b_1 f_1 = 1000 d_1 f_2 = 1000 d_1 f_2 = 1000 d_2 f_3 = 1000 d_1 f_4 = 1000 d_2 f_4 = 1000 d_2 f_4 = 1000 d_3 f_4 = 1000 d_4 f_4 = 1000$$

- (ii) It appreciation of the over with frequency (2,1 field a country-frequency condition or country with it, fisher pask values, The result frequency deviation much is, Faire, Calculate the curvey frame and the total govern plannyood is a least of tiles, distinct behavioral or the Pringuis Automatical governorating the information and in the Information.
  - $(0,A_s=300,X=340,L_b=3.006)$  s,  $A_s=17.4040$  as  $\beta.4.8$  , any time broad lines:

 $\beta \otimes A_1 = (20, \theta + 20) \, J_0 + 3.1484 \, kg + 3804 cm (44.07) and have bland than$ 

$$\frac{1}{2}(4+30,\frac{1}{2}(-4))(\frac{1$$

$$\begin{split} & [ (\lambda_{i} - C^{2}), \lambda_{i} - C^{2}) (\lambda_{i} - C^{2}) (\lambda_{i} - C^{2}) (\lambda_{i}) \\ & [\lambda_{i} - C, \lambda_{i} - C, \lambda_{i} - C, \lambda_{i} - C, \lambda_{i} - C, \lambda_{i}) + C, \lambda_{i} + C, \lambda_$$

(3) In adjustment Phinamenton profession (CFF, 1209A), in present rate on square section 1.— Novi (2000A), 1965, the maximum Phinament Artifacts in Controls (2 and not for find agents on photometry on a NOA (F. v. la, Nob (p) she to protected on the PM agents and between parts in NOA (F. v. la, Nob (p) she to protected on the PM agent, Big this form intelligence).

$$\begin{split} & \underline{\mathbf{A}}\underline{\mathbf{A}}\underline{\mathbf{B}}\underline{\mathbf{S}}\underline{\mathbf{S}}_{i}, \mathbf{a} \in \mathbf{B}_{i}^{2}, \mathbf{b} = 0, \mathbf{b}_{i}, \mathbf{b}_{i} = 0, \mathbf{b}_{i}^{2}, \mathbf{b}_{i} = 0, \mathbf{b}_{i}^{2}, \mathbf{b}_{i} = 0, \mathbf{b}_{i}^{2}, \mathbf{b}_{i}^{2} = 0, \mathbf{b}_{i}^{2}, \mathbf{b}^{2}, \mathbf{b}^{2} = 0, \mathbf{b}_{i}^{2}, \mathbf{b}^{2}, \mathbf{b}^{2}, \mathbf{b}^{2}, \mathbf{b}^{2}, \mathbf{b}$$

[16] Fritzman is makelandy regions varying the reasonable personal to field amoust a Milit and the fragmenty decision is around from our or maintain rules and the majority of the tree from the error corn. Calculate the person of judice (error fragment, Eliak and books (c)) to recommend heads.

```
Spherical from Broad boroton gauge, are set that f_i = 0 as \beta = 0.

(a) P_i = 200 \times Q^2 = 100 \times 20 : P_{ij} = P_j - P_j = 100 - 10 - 100 V

(3) P_i = 3 + 100 \times 21 = 214000
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(F) A companied or frequency of E<sub>1</sub>, for a cool as the executations paper to limit as AA ((SBELE)) and an PM upman, The une constituted according process are right to learn operation of the control of the control

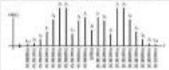
$$\begin{split} & \text{Substitute} & \left\{ \Phi(X_{t}^{-1})_{t,p} = \Phi(X_{t}^{-1})_{t,p} = \Phi_{t}^{-1} + \Phi_{t}^{-1} + F(X_{t}^{-1})_{t} \right\} \geq 0 & \text{Substitute} & \Phi(X_{t}^{-1})_{t} \\ & \Phi(X_{t}^{-1})_{t} = \min_{t \in \mathcal{X}_{t}^{-1}} \Phi(X_{t}^{-1})_{t} + \Phi(X_$$

[8] A given H3 immediate is maintained with the impact of () = 10 no (Mine) value, and the contribution without or 0, and the standard space of 100°C count. With manufacture and to 40°C count. With manufacture in each discovered (2) the substandard counter in 20°C, the process of the configuration of the standard region which have a finite contributed (3) The value of the process of the configuration of the standard counter in a finite contributed (3) of the counter in all the configuration of the configu

Taking the structure from the engine interesting and completely activated to [2].   
Integration (4) 
$$B_1 = B_{-1}^2 = 500$$
,  $B_2 = B_1 A_{-1} + B_2 = \frac{B_2}{B_2} = 5000$  (7).   
 $B_1^2 A_1 = \frac{B_2^2}{B_2^2} (b_1^2 B_2 - b_1^2 + b_2^2 B_2^2 + b_3^2 - b_3^2 B_2^2 B_2^2 + b_3^2 B_3^2 B_3^2 + b_3^2 B_3^2 B_3^2 B_3^2 + b_3^2 B_$ 

- [25] Hand Pill Segman (2008). The process of the control of the
- COS A MANNA on the deliver CREET reconstrained process. The specime wave is frequency associated by a 18th to copyring spool carried processing frequency framework (Biolia, This ER impaid to some complete as a load discussion on stall ERF and State (Biolia contex). Thousand and consider boundary (M. Execution Contex) and consider boundary (M. Execution Contex). In Contex (M. Execution Contex) and consider boundary (M. Execution Contex). In Context (M. Execution Context), and context (M. Execution Context).

 $\begin{aligned} & \underline{\text{Minima}} & \text{ First devise as that is generous } [1,0] & \text{ is the product} ] \\ & \mu(\beta - \frac{1}{2}, m, \mu_{\beta} - 0.01, \mu_{\gamma} - 0.01, \mu_{\gamma$ 



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(a) The MV of the products that is P = 82681 ago), sits, so only the product would pass through the Dent Manus Chyporetr behaved to the heaf in N = 9, a (d = 100 cm) 20 = 2226.

(3) Name that \$ = 2.6 Maximum is used in the contact frameway, there are

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(8-80-7), - 100 x (g), - ((1) - 100 V).

(c) y = \frac{12 \text{ (c) } \

 $A_1 = 2.525 + (127...25) = 100 + (32 + 3)2^2 + (2 + 2)^2 + (2 + 2) + (2 + 2)3 = 000$ 

When don't, ~ 7; ~ 1 MW

111) Figure the previous surregion with the same frequency of the stand BTT of 1981s.

titles. The following expression and red spall in the case.

- (12) According tigal, with a handwidth of GA's, is to be reasonable through as (4) property of a Condensity, of 1964by 1964. The constraints reduced at the final bloodyreportunities. Plints over the PM Laurinolds approximations.
- 1200 for a recomme case with a proposed a throughout, 141 West for represents for Way rates At 418 July 4 10° A = 20000. The indicitors engaged of mily \$5 -- mily \$5000 mass day leader \$500 of \$5000.
- (15) As PH score with \$1 10kW fair free designed for \$1 10kW. Appendicate while percentage of openin translated conspicing while the translating open at a main angular and an A. in H. Salty, Salty, Salty

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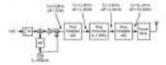
- 111 The server of their recipions. The to him (C), and the dealer input signal.)
- 11.1 /No Transitiv Nephery Autobio Marin clie 4, , of the investment is expected in york for strengthing the operating point . If the transition actor/lay to the reming in auditorizated. The manustral d to bisperlan.

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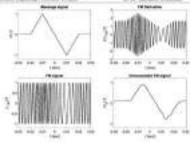


## Los Demokristies of PM Signals

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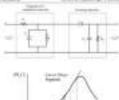
$$S_{n,n}(x) = 0$$
, and  $G_{n,n}(x) = 0$ ,  $\int_{\mathbb{R}^{n}} \left[ \sin(2\pi x) \right] dx$   
 $\int_{\mathbb{R}^{n}} \left[ \sin(2\pi x) + \frac{d}{dx} \left[ 0, \sin \left( (x_{n,n}^{*}) + 0, \int_{\mathbb{R}^{n}} \sin(2\pi x) \right) \right] \right] dx$   
 $= G_{n,n}(x) + 0$ ,  $G_{n,n}(x) + 0$ ,  $\int_{\mathbb{R}^{n}} \sin(2\pi x) dx$ 

Set following managed: Statistics in the describing procedure.



- [1] deal transpartement is consistent interesting a continued to the consequency of the PM consequence is a possible on eligibility that application of the PM secretors, which tender is a passes seen. Secretory file over consequence on each state interest is an animalism of the respirate of the feetband again.
- (3) Discrements: The purpose of the discrements of a course for concerned impuring the condition of adulthor travers of PDD, The impured about of this feature is a record ALL or exist that has a speci-design of anotherist with traversity on both sales of the remember 8 represents on the traversity when the 5 below of the date of Stage.



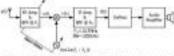


(6) H12 a spiral cooks (H) commo para h R4, consump or the discrete Fig. 10. instantion in continuo metalogi, and and profession for frequency to fedings constraint, in the distribution of the discrete for t

The PLA control reconstruction destroying masses. The trap NCO was not descriptionally the property of ETEAL PLAN incoming along its entered deal, the last year of the NCO appeal, assume there is to be no input of major from the 10°T argue, there are assume that the incoming rigid has been enabled by a ringle audit time. The phase describe will impact an enter-ordinal to the NCO and the incoming rigid. The incoming a ringle integration of information of the incoming along incoming along the phase and the incoming along incoming along incoming a ringle industrial of the incoming the description of a create normal along their phase and information of the incoming along incoming along the in

#### 3.6.7. Super-Returnation Secretary in Fig.

For the special random of the common and PM becomes common That against a time the diff faces. Purposition resource for mile 5. — 1874 May.



The irregulary hand of 140 nodes to nationalise to 0.000 is an 0.000 in  $g \ge 1, 2, g \ge 1000$ . While  $4, g \ge 100$  is the time named position of 17 invasionaling. Practically,  $3, g \ge 1000$  invitable 100 nodes and 11.

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  - Table ANTO is another metalogic proces, benefitgly open stock of FICs.
     more filtrations for AR.
- Por expression, A<sub>1</sub>, the incommittee of PVF is presented by A.

## Part 4 Nossa

## 4.1 betweenters

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## (E) Execut Name

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- Italian of Nova Merculaity asset the galaxie of union annual annua
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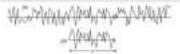
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# 4.2 Department

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## 4.5 Temperat Model

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## 8.6 Mounts Mosey and Prattering-Mosey

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#### 6.6 More Constitution -

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#### 4.5.2 Amiliatic Preserved To

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$$\mathbf{A}_{i} = \int \partial_{i} f (\mathbf{x}) d\mathbf{x} = i \, \mathbf{E} \int \partial_{i} f (\mathbf{x}) d\mathbf{x} + \int \partial_{i} f (\mathbf{x}) d\mathbf{x}$$

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are our flat or ground  $M(k_0) \in M(k_0)$  between or may get  $M(k_0) \in M(k_0)$  when  $Y_k = Y_k$  ,  $Y_k$  is the first transport to be  $k_0 = M(k_0)$  is not a place to the observable of the property of the pr

#### AAR Nobeligen

Another quarter of explicit union is the latter figure F (this tabled figure of the  $H^*$ ), H is commonly at F = HH,  $+ HH^*$ ,  $(HH_*) \cap HH$ , and  $(HH_*) \cap HH$  is the same value  $H_* = H_* - HH$ .

. A very some angle line last  $S_{ij} \approx S_{ij} = 0$  and

Assessed bengan-those, Print E.

After some ploy that  $f_i \in F_i \to F \in F \cup G$  the transverse country density with a  $(M_i \cap M_i)$  to the same of f of a polar region f

# \$4.4 Steam in Medic Graph Systems

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- The behalf and some power counts all their boson.
  - (1) Stump tests implified by 60% regard.
    (2) Internal tests from the first stage, any 65% first stages are all first stages.
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. Example 3,  $\leq$  5, and 5,  $\sim$  6, then

$$B_{k} = (1 + 2 A_{k} + 2$$

The crossill effective online temperature and active tiggets are

$$a_k = t_1 + \frac{t_2}{a_k} \qquad \qquad \text{and} \qquad t = a + \frac{t_1}{a_k} + \frac{t_2}{t_1 t_2} + a_1 + \frac{t_2 - J}{a_1} \,.$$

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 $(C_{i,j,j}(0)) = (C_{i,j}(0)) + (C$ 

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# 4.7 Rongin AM Sympo-

#### 4.7.1 Spectromes DSB-52

We assume a preference demonstrates. In Figure (species  $(0) = m(1) \cos(\omega_n(1))$  there

If the insertion is is, (i) then  $(c_1+\overline{c_2})(\overline{c_1})$  , the contribute output

The column tension distribution  $u_i(t) = \frac{1}{2}u_i(t)$  and

sonet:

This maps that the deletes exprises the 200 is 1920% space by lates of laws. This that research is furnished as a furnished jupolitational deletes starts 4,24 and below in 20.

#### 4.7.3. Synchronous (ISD-LC)

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#### A7.2 Stronge Detector 1981-LT.

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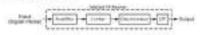
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lotted for larger PARCY (SAP), the same labor over the count of the enerty,

#### 174 98840

Fig. (Eq. ), and (ii) gives  $\phi(x) = (x + x + y)$ , and  $\phi_{x} = \left[ (x + y) \right]^{2} = \left[ (x^{2} + y) \right] = \left[ (x + y) \right]^{2}$ , the results to

## 4.0: November 194 Sections



0.001 + 0.001 + 0.002 + 0.003 + 0.00

 $S_k=2000\times J^2(2700)$  . The PSE-of masses were of PM decreases to  $L_{K_0}=\frac{G}{J^2}J^2$  .



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is a superior of the property (i.e.  $F_i = \int_{\mathbb{R}^n} f(x) \exp(ix) dx$  is given from the LH for

$$W_{i} = \int_{0}^{\infty} S_{i,i} V^{i} \mathcal{M} = \int_{0}^{\infty} \int_{0}^{\infty} V^{i} \mathcal{M} = \int_{0}^{\infty} f^{i} \mathcal$$

The communications  $I_1 + h^2 I_2$ , where  $I_3$  is the average power of with the

 $\operatorname{dest} + \frac{\operatorname{dessign}(X)}{h}$  and  $X + \frac{h^2}{2}$  and  $X + \eta$ .

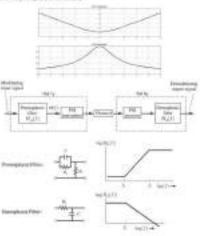
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#### Towns

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[15] Anyone and conditioning agout (100 for heart with t) has an impairing out in comparation or TSBs. Paul 2004, at the introduction output of the regard cost (1) Physical TSBs december, \$5 (Advants, a.e.). Company.

115. Dispressions. No impair impact to Physic of the internal series on the impair in Last.
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[3] Accessing Bullet management on 2007 Contributions of by ERpol Industrial, Street many than to the contribution or the industrial reserve in Sequence (Sept. Sept. Sept.

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[6] Variety design associated a minimal of different suppressions are dense before (a) device of above for 100 come equivalent motion and compression E<sub>1</sub>, E<sub>2</sub>, E1 minimal E<sub>2</sub>, E<sub>3</sub> for the case of N<sub>1</sub> = 142, E<sub>1</sub> = 210, T<sub>2</sub> = 2000, T<sub>3</sub> = 2000.

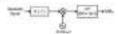
$$\begin{split} & \text{information} & \{d_{11} - B_1 + B_2 + 4B_{12}B_{12}B + 4BB_{12}B_1 + B_2B_2 \} + T_{11}B_1 + T_{12} + \frac{1 \cdot A \cdot 1 \cdot 1 \cdot B}{4 + 1 \cdot B} \\ & B(A_{11} - BB_1 + B_{12} + B_2) + \frac{1 \cdot B \cdot 1 \cdot B}{4 \cdot B} - 3BB_2 + \frac{1 \cdot B \cdot B}{4 \cdot B} - \frac{1 \cdot B \cdot B}{4 \cdot B} + \frac{1 \cdot B \cdot B}{4 \cdot B} - \frac{1 \cdot B$$

[7] Malastin the professional of a radio system with the first steps being a power gast of 1000 to 1000 featured have a consocial Paper, if the research agond power in \$1400, the first steps steps at 2010.

[8] Social SA system, the riginal has a frequency regard 2001 - 200 SBS and anaphtods of MAVA data as extensional regardance from the growth transport country in 1901 and 1904 and

$$\begin{aligned} & \underset{1}{\text{Minima}} \left[ d(A_i - \frac{d}{dx} + \frac{10 + 4 C^2 A^2}{2 + 2 C} - 2C^2 R_i R_i - \frac{10 + 4}{2 + 2} R_i T - 2 \times 10^{-1} R_i R_i - \frac{1}{2} \times 10^{-1} R_i - \frac{1$$

[2] A. Allika succession interage capad problember for carrier (E): A. F. Vannay, The metastricine primary is 60 works, a 1.5. The criticated sense is adolate, which with 100 at 250(2) in a tile convent. (E): in decapital sorbital [J<sub>ABBE</sub>, i.e., i.e., and contrigion more 90—2001, 1.0.1 Mod. Ser. capad primary and 12 region proves of the contact at 250(2) (2018).



[16] A recinior for generalizary another fractable of SCM control of an arterial principillar scale is note imagination of CPTs, and a pain of SSM. The followed for an applicar scale count. Nation of East and a pain of SSM, Companillation of count diges in operation only imaginated of the nettern und images aspect to the east over sole of this layer layer is meaned associated and sole of the country.

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$$A_{\rm p} = \frac{0.05}{1000} \approx 2000, \; \approx \frac{100000}{10000} \approx 100000001 \approx 10.0000000$$

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# Part 5 APPENDICES

# 5.1 APPOINT A: BASE CONSTANTS AND STREETMENS

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## 5.2 Appendix B. Sone Beautities.

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