Found Kindglenn/ Reminis Analysis. - o founer hunden has wied one signal processing and communications. some + electrice -> Analog Communication and trummism -> Drgital Commulairann -> Digital Signal Broceron -> conprol garance. -> Digital Image Bucesons -) Speech Signal Processors.

Shund Sires Spanner Set of busic sanding | basic (Hirar) shop of Linear ambriahows. Signals and Soluns ON R. R. Shifted Impulses

3 Marin - Transient Complex ETHINKS (SINHER) JKWot 6 HAY)

- s chapter 1 and chapter 2 can be unclestood as Andy I linear unbruh with shotted impulses and shifted impulse responses as busist Broken's, respectibly -> (Chryster 3, Shaper 4) and chapter 5 com the 2150 be undertout as hidy A linear combonatural with net it Complese expensional functions such as charters, six wot? le f exwon? K, AGT. Seint? -> charter 4 {ewn}nez, wer ->: Course on Signals and Sylams ontometring with distance books function A kind of linear algebra

History of Founks Analysis: -6 Classic were (tistorical) unex teger enemina of rainton.

Sir Issac Heuten: frism Experiment Howkno whole ligur. with Bregnery range. e colon whole light Reionanutra

Modern History or fourier Analyse. 17th century: 1703: {Bernardi, Enter } Rober & Vilorating String support 50 spake Mormal modes of vibrating ofring. The key idea thought was to repnew modes it vilorating string as linear commencer

Due to Sir Newton, spectrum is deduced as range it Ingreneurs associated with a Spectral of spectrum, spectrum, -> Historically, the term greature inar

somied for sontmuous rouge of Regrencing - Agragnas, Ohm EMusic and Acoustics 3 -> study waves

(fetym) = [eni(.) + (00(.)] 1759: L. Leigrange - opported the the idea represented by above eggs. Jean Baphile Joseph Founter J. B. J. Foune Thermodynamite Heat Dil Humi Brees. touries series has used to derrie through a body. I hneer combined assires

Formei's resemb poer (Thi Logrance) ( My 7, E.) Reported Former's Papas Book: Analghical Theory & Head. Institute at France. Musica and Arvenies.
Musica France Dohal S. storing Frame (Tasar) Doughi Eigenmont of Totala Totala Sir C. V. Raman The spectrum it is rignal proluind by near physical system caphier infomati about ogstom chancel ystem andtokue

Terhnological Les des des 1365, IBM -> Gooley and Tukey XIM = South = swtat CTR7. Xiens = Swar DITET To imprene mis " computationally effective may. Fast Fourier Trendom (FFT):-> (D) Commentally Semments

(D) Commentally Semments

(a) Special purpose mengracus

to compute FF7 yill Andalane hardun

at Keapone of un LTI soften for Simon Bala Excitation: -> LTI -> Jing :. Jen = som & hang Amis Commutative Byerty. Jun = hen of rem -yan) = 5 huk) (mn-k) Let imput excitation signal be given b) ain1 = e win = complete growthist 5 here. Ementes ijun -jwk = 5 hay .. e, 'X e

Munenical Analysis 5 dre = [tant(n)] 1 1 th2 = [tant(n)] 1 Jam = ?? eigen 7 proper Journel Analysis 15 mefre you = { Liew } end for the file = him end of the file = him end of the file = him end of the file = him end on I Impulse repprise I on LTI somme charcelenies on LII roben completory. -> so is its Oregrand Jegrue, H(esus).

For an LTT sooners, it emitted by response, your, alto conteni & who multiplied by LTZ asstern's eigenvalue, HIEW : Jun = H(e'w). Ewn

| Form Systems

Systems

Sequence | Response LIZONO

(3)