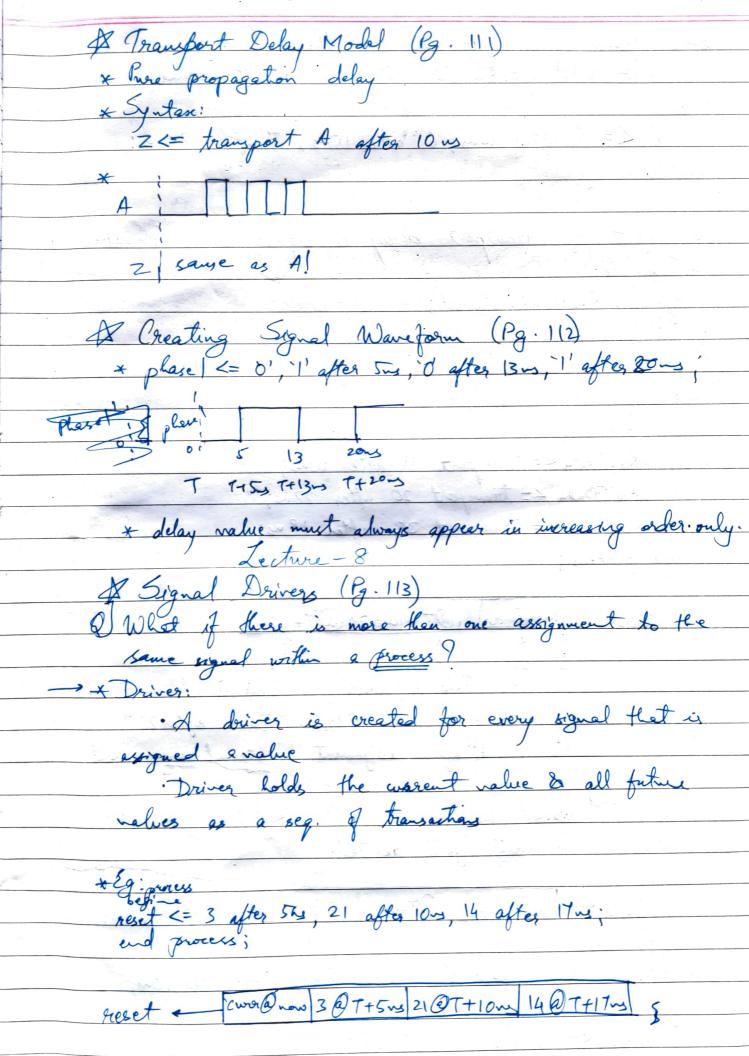
& Inertial Delay Model (Pg. 110). * It models the delay found in mortching class * In if must be stable for a fined duration ble a value is allowed to propagate to the ofp * I/p must be stable for a specified pulse sejection limit" duration for it to propagate, Syntan: signalogiet = reject pulse rejection limit inertial
expression after inertial delay value

* 94 No pulse rejection limit is specified, the default
fulse rejection limit is the inertial delay value

* Eq: ze= reject une inertial A after 10 ne; A S \$ 10 25 28 36 . 45 48

2 1 20 40 * Examples: z = reject 2 mertiel after 5 ms A: 567912 15 * By default, it is inertial delay.

Eg: Z = A after 10 ne = Z = & inertial/after 10ns; * Advantage of hertial Delay: Signal spikes can be



a <= 0',11' after 5 ms, 0' after 10 ms; 1' after 20 ms; b <= 5 after low, 6 after 1500, 7 after 2000; * Exemple: * Example: signal Rx-Data: natural; Rx Dota <= transport 11 after 10us; Rx Data L= transport 20 after 22ms; Rr Data <= transport 35 after 18 ms; This is added this is added to the fo the driver after driver after after 2nd 1signment signal assignment At 3rd signal assignment, 18mx <22ms so 2-d signal assignment gets deleted. Rx Data - wordnew 11@T+10-3 35@T+18ms -> Auswer Data Bry (= transport X"01" after 5mg, X"FA" after 10mg,

X"E8" after 15mg;

Data Bry (= transport X"B5" after 12mg;

* Effect of Inertial Delay on Signal Drivers (Pg. 116)
** Rules: 1) All X sactions on or after new X saction are deleted ii) Append new X sactions at the end of the signal driver. III) Which old transactions to delete? All old transactions that occur bow time of 14 new Xsaction (F) & (F-pulse neject limit) & whose rake is different the the value at F. in) For a single small assignment statement, if the 1st woneform element is

x Example: added to the driver than all subsequent warmeform

process

begin

Tx Data <= 11 after 10ns;

Tx Data <= reject 15ns inesthal 22 after 20ns;

Tx Data <= 33 after 15ns

end process;

Steps:

Tx Data ← curr@nato 11@T+10ns Tx-Datas - curr@now H@T+10mg Delete this at it lies blu

5 to 20 i.e ([F. pulso sejulin] - F) Tx-Data - curramoro 22@ T+20mg Tx Data = curronas 33@T+15-s Jay Hist Add Bus = 1 after 5 m, 21 after 9 ms, 6 after 10 ms, 12 after 19 ms;

Add Bus = reject 4 me inertial 6 after 12 ms, 20 after 19 ms;