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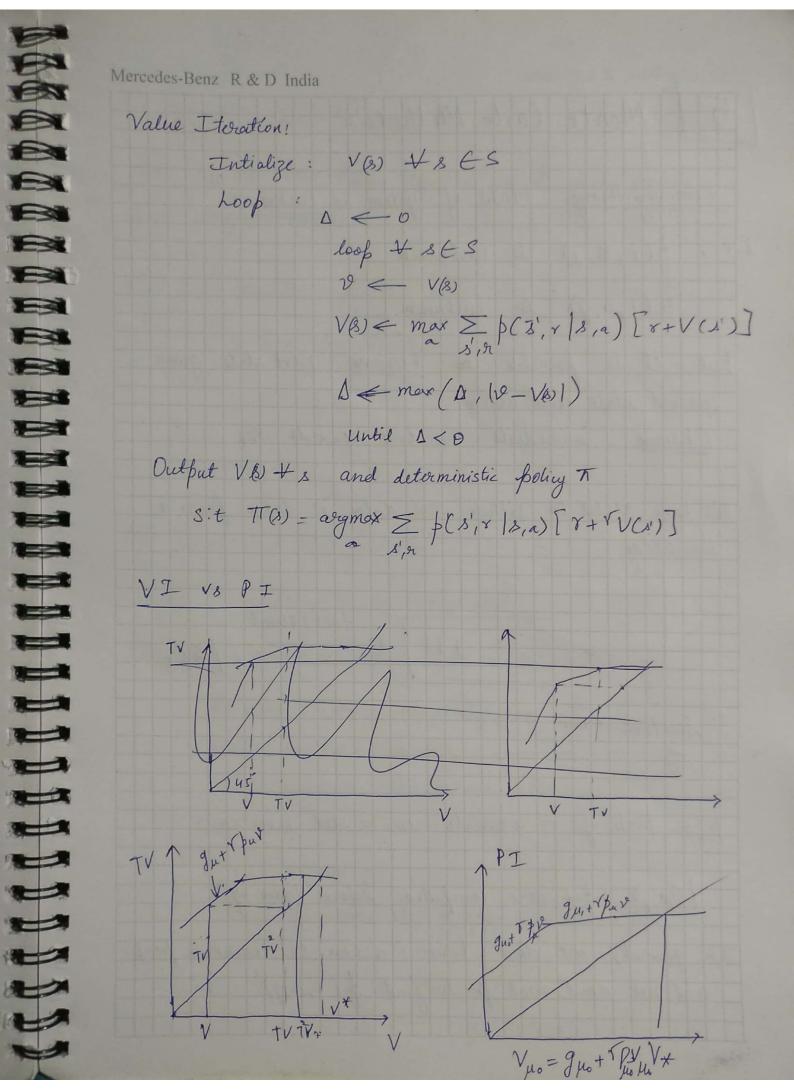
M

Mercedes-Benz R & D India Unlike randomize foling T (a/1) = a, N-7 9, am wyp. st p1+ 12 + 13 ... Pn=1. this method has a distgiff buttor of golies. have might require to use gradient search. The method can have been mor, but in freeings method you get global has due Policy Improvement frocedure: 1 Initialization: V(8) ER and T(B) A(8) whitery 4 &ES · loop 1 <-0 2. Policy & val Loop for each & ES 19 - V(s) 1 = max (0, 10- V(1)) until A < 0 (small +'ve no)

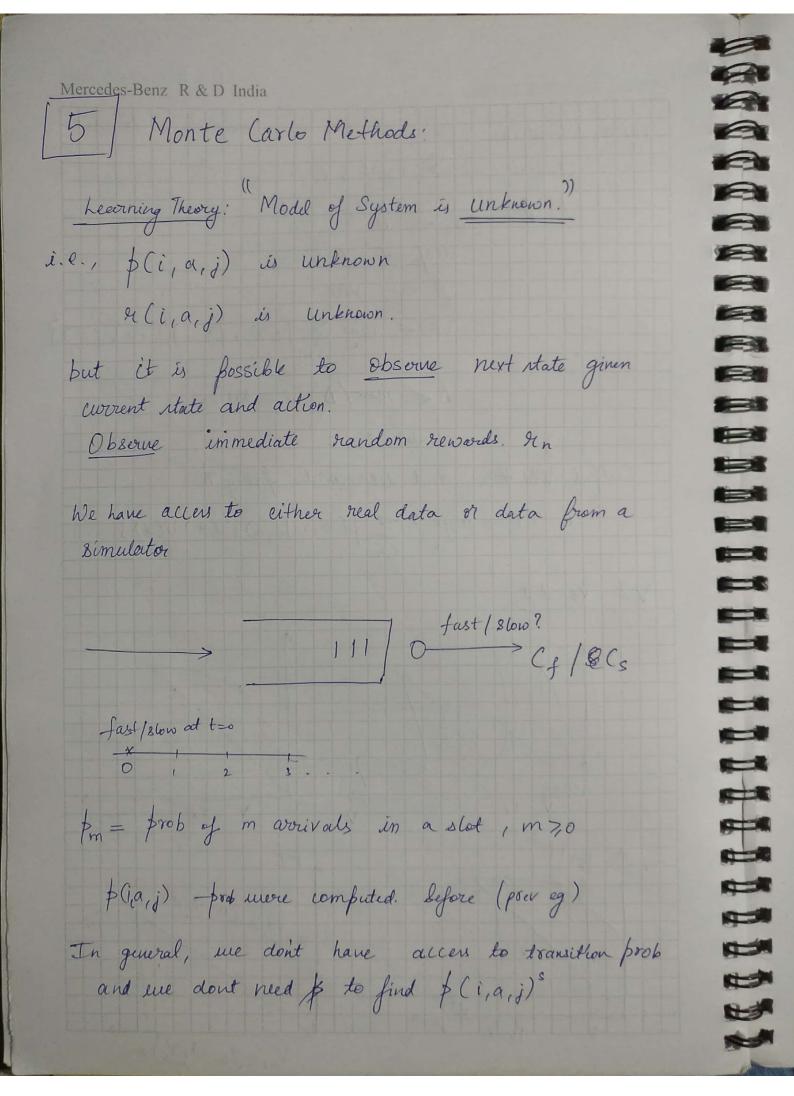
B Mercedes-Benz R & D India **633** 3) Policy Improve: FR for each & ES PN PA I old action < T(8) -3 1(8) < arymax \(\(\) \ 1 13 If old-action = T(B) 48 -3 then stop & return V = V* & T = T* If old author 7 T(8) for some (8), 1 **7** go back to step 2 k perform l'E for policy To T-ST If VT (8) = Void (8) + 8, then 1 VA = V* A T A Old-poliny one both 3-28 7 of timal. Jack's Car Rental. - Implement policy iteration. 1 1 Value Iteration: 0 $V_{R+1}(8) = \max_{a} E[R_{t+1} + \nabla V_{R}(8_{t+1}) | S_{t} = 8, A_{t} = a]$ 3 = $\max_{a} \sum_{k} \left[\sum_{i=1}^{k} \sum_{j=1}^{k} \sum_{k} \sum_{i=1}^{k} \sum_{j=1}^{k} \sum_{j=1}^{k} \sum_{j=1}^{k} \sum_{i=1}^{k} \sum_{j=1}^{k} \sum_{i=1}^{k} \sum_{j=1}^{k} \sum_{j=$ 2 Vo = (Vo (8) (8 ES) Note: tombines both evaluation & iteration eg: at t=0.

V₁(s) is calculated, later max is taken

1: 1 step is evil & second is imp 2 2 2 this first etep is evil & second is improved 2 2 9-2 1 M



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Note: T is a random time. In the first pass, $G = R_{\tau}$ Next: G: = VRT + RT-1 Next: N (YRT+RT-1)+RT-2 = 12 KT + TFT-1 + RT-2 Eventually, G:=R1+ YR2+ Y2R3 - . . YT-1 RT Vx (8) = Ex [4, 15, -3] States terminalitate TTH, 12 R7 TIM + RM Gm=R"+TR"

