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[00:00:00] **Speaker 1** So the idea is take the general assumptions we have for the problem and we're going to make the assumption that the staged cost GDP is uniformly bounded above and below by some kind of constant. Okay. Moreover, we're going to assume that Alpha is certainly between zero and one. So Alpha represents a true discount. We're going to see that under this assumption. Would you basically guarantee all three of the criteria we have before this the limit of convergence exists that we will have a necessary and sufficient condition. We'll start we will have a necessary condition for the optimal value function to be the optimal value function that's actually necessary and sufficient, and finally will derive necessary and sufficient conditions for the optimal policy out. Right. So those are this.