

EXISTENCE OF OPTIMAL POLICIES IN STOCHASTIC DYNAMIC
PROGRAMMING

Lawrence D. Brown
Bharat T. Doshi

Abstract: This paper deals with a general discrete-time stochastic dynamic programming model. Under rather general conditions on the cost functions and the law of motion it is shown that there exists a fully optimal Borel measurable policy, that is, a policy which is optimal for future at every stage and every possible history of the process up to that stage. For the stationary dynamic programming model this implies the existence of a fully optimal stationary policy.

2000 AMS Mathematics Subject Classification: Primary: -; Secondary: -;

Key words and phrases: -

THE FULL TEXT IS AVAILABLE [HERE](#)