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Question 10.13.1.22 The probability of getting a bad egg in a lot of 400 is 0.035. The number of bad eggs in the lot is

Solution:

parameters	values	description
X	1	good eggs
	0	bad eggs

TABLE I RANDOM VARIABLE

$$P_X(X) = \begin{cases} 0.965, & X = 1\\ 0.035, & X = 0 \end{cases}$$

Given:

S = 400

Pr(X = 0) = 0.035

 $(X=0)=\Pr(X=0)\times S$

bad eggs= 14