

Example 6 Poisson Distribution

The number of hits on a certain website follows a Poisson distribution with a mean rate of 4 per minute. What is the probability that at least 63 hits are received in 15 minutes?

In this problem we need to adjust λ . Since the average rate of hits is 4/minute, in 15 minutes the average rate will be $\lambda = 4(15) = 60$. Here we must use the formula.

$$P(X \geq 63) = 1 - P(X \leq 62) = 1 - e^{-60} \frac{60^{62}}{62!} = 1 - 0.0066$$

≈ 0.9934

Poisson Distribution Examples And Solutions

Robert K. Smidt



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Emerging Non-Clinical Biostatistics in Biopharmaceutical Development and Manufacturing Harry Yang, 2016-11-30 The premise of Quality by Design QbD is that the quality of the pharmaceutical product should be based upon a thorough understanding of both the product and the manufacturing process This state of the art book provides a single source of information on emerging statistical approaches to QbD and risk based pharmaceutical development A comprehensive resource it combines in depth explanations of advanced statistical methods with real life case studies that illustrate practical applications of these methods in QbD implementation

Journal of the American Statistical Association, 1992 A scientific and educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data

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