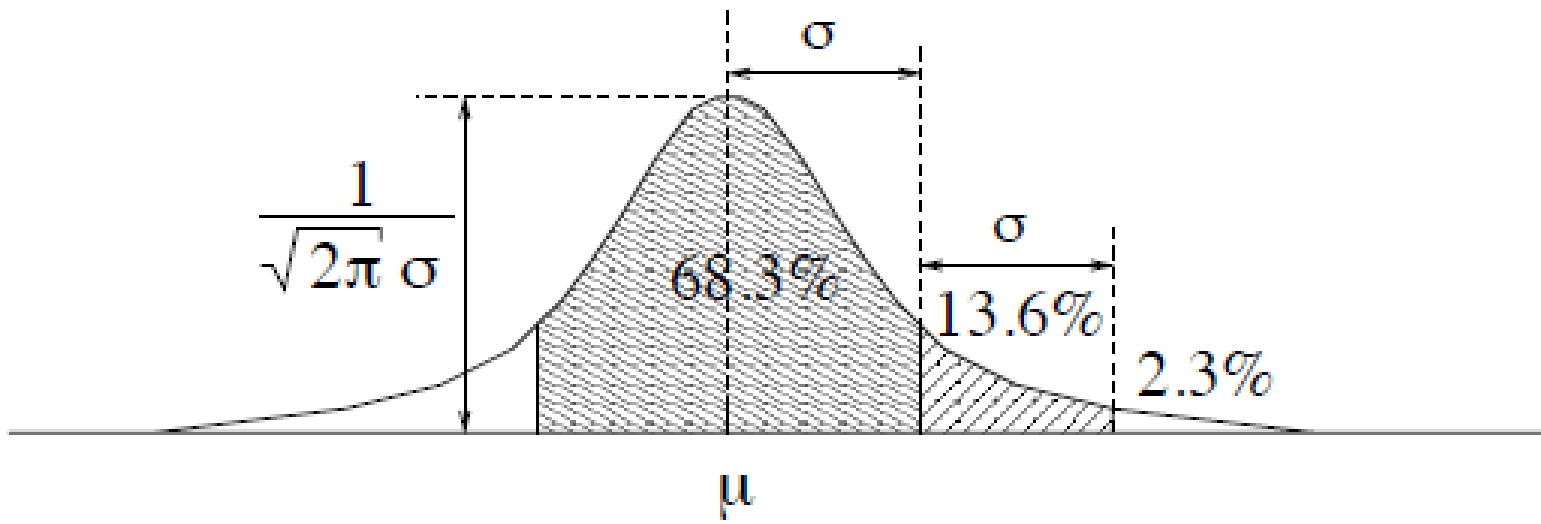


Probability with Engineering Applications

ECE 313 – Section C – Lecture 23

Lav R. Varshney
20 October 2017



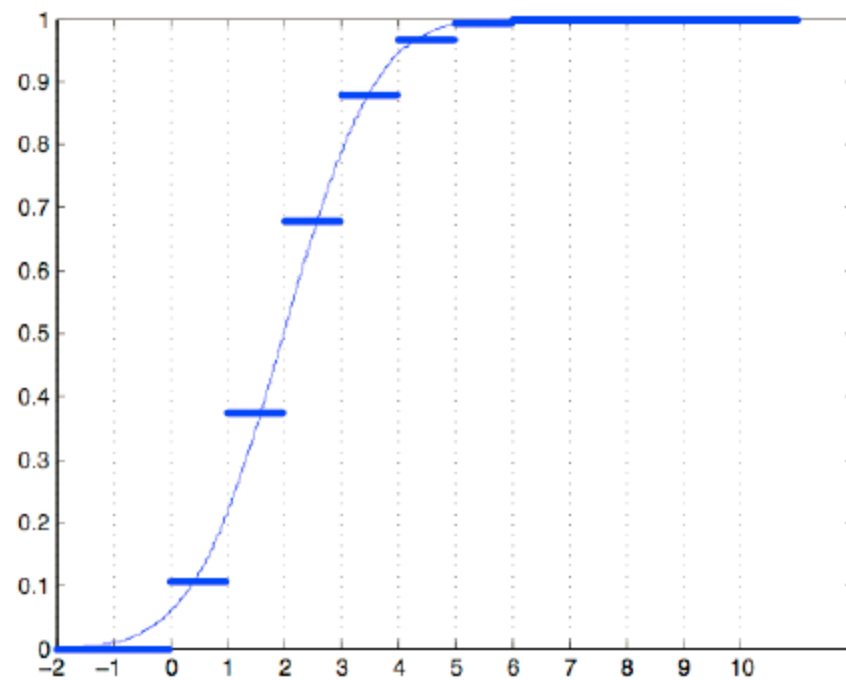


Figure 3.12: The CDF of a binomial random variable with parameters $n = 10$ and $p = 0.2$, and the Gaussian approximation of it.

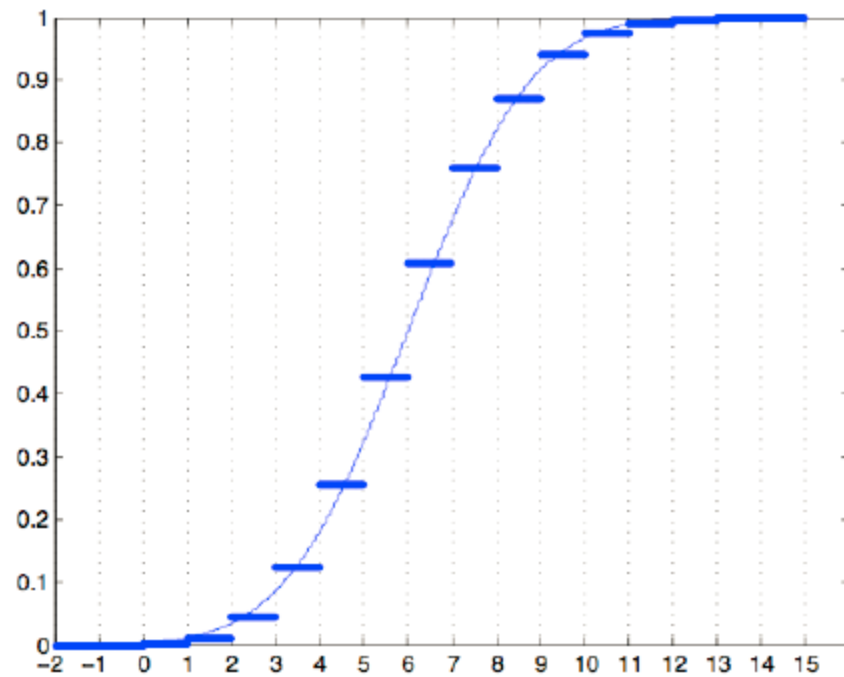


Figure 3.13: The CDF of a binomial random variable with parameters $n = 30$ and $p = 0.2$, and the Gaussian approximation of it.

matlab

```
>> X = rand(1000,1000)>.2;
```

```
>> Y = sum(X);
```

```
>> hist(Y,100)
```