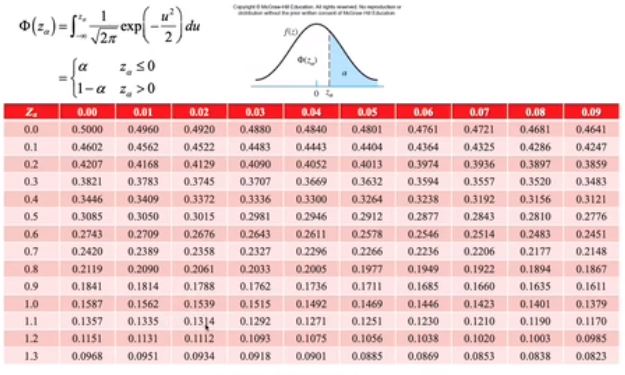
* Stress and strength
* Uncertainty
* Stochastic and deterministic methods
  + Deterministic method
    - after you find stress rounded up
* **Design factor and factor of safety**
* Reliability method of design
* Definitions of
  + Reliability R
  + Probability of failure
  + Margin of safety m
  + Probability density function PDF
  + Normal Gaussian distribution
    - * Turns a distribution into one with a 0 mean and standard deviation
    - is mean
    - is standard deviation
  + Cumulative distribution function
    - CDF table like Table A-10
    - is value from the table
    - 
  + **Relation between design factor and reliability**
* Dimensional tolerance terms
* Simplest dimensioning
* Tolerance stack up
* Chapter 2
  + Relationship between true stress and true strain
  + How to compare materials in terms of their properties
    - Resilience
      * Area under elastic portion of curve
    - Toughness
      * Total area under stress strain curve
  + Strain-strengthening equation
  + Hardness
    - Steel:
      * in Ksi
      * in MPa
    - Cast Iron
      * in Ksi
      * in MPa
  + Ashby charts to choose a material based on guidelines