

3) 
$$\sigma = \frac{E}{A}$$
 $A = \frac{E}{C_{max}}$ ,  $A = \pi (\frac{d}{2})^2$ 
 $\pi (\frac{d}{2})^2 = \frac{E}{C_{max}}$ 
 $d = \sqrt{\frac{4}{7\pi}} \frac{E}{C_{max}}$ 
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 $\sigma = \frac{E}{C_{m$