Bar, Wire and tube drawing

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1.Quiz

1. A certain material with a strength coefficient of 200 MPa and strain hardening exponent of 0.2 is drawn into a wire from an initial diameter of 3 mm to a final diameter of 2mm. The conical die has an angle of 16^{o}. The coefficient of friction for the process can be assumed as 0.05. Calculate the draw force required.

2. What important parameters affect the draw force?

3. What is the maximum reduction that can be obtained in strip drawing?
4. How does the deformation zone geometry affect the draw stress?