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Abstract. Drawbacks of the SLP method are noted, and to overcome them, the concept of sequential quadratic programming (SQP) is introduced. This approach parallels the approach for the unconstrained optimization algorithms: calculate a search direction and a step size in that direction to determine the design change.

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(Problem 2.3 of Arora's Introduction to Optimum Design): Design a beer mug, shown in fig, to hold as much beer as possible. The height and radius of the mug should be not more than 20 cm. The mug must be at least 5cm in radius.

### **Question 1 - UFL MAE**

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