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About the author (2004) Arora is an internationally recognized researcher in the field of optimization and his book Introduction to Optimum Design, 3rd Edition (Academic Press, 2012, 978-0-12-381375-6) is used worldwide. Jasbir Singh Arora is an F. Wendell Miller Professor of Engineering, a Professor of Civil and Environmental Engineering,...

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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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Chapter 2 Optimum Design Problem Formulation Arora, Introduction to Optimum Design, 3e 2-2 2.2

\_\_\_\_\_ A refinery has two

crude oils: 1. Crude A costs \$120/barrel (bbl) and 20,000 bbl are available. 2. Crude B costs \$150/bbl and 30,000 bbl are available.

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