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Procedure

Simple distillation

1. The water bath was prepared
2. 50 ml of contaminated ethanol was measured using measuring cylinder
3. the measured contaminated ethanol was placed in to water bath
4. boiling chips was added to vaporize only the component that needs to be distilled
5. the thermometer was placed to record the temperature
6. the distillate was collected in collection flask and recorded the boiling point after every 5 ml

Fractional distillation

1. The water bath was prepared
2. 50 ml of ethanol and 50 ml of water were measured using measuring cylinder
3. the measured contaminated ethanol was placed in to water bath
4. boiling chips was added to vaporize only the component that needs to be distilled
5. the thermometer was placed to record the temperature
6. the distillate was collected in collection flask and recorded the boiling point after every 5 ml

data

The distillation for our simple and fractional distillation clearly demonstrate that simple and fractional distillation separates the two compounds more completely. The boiling point and volume is shown below

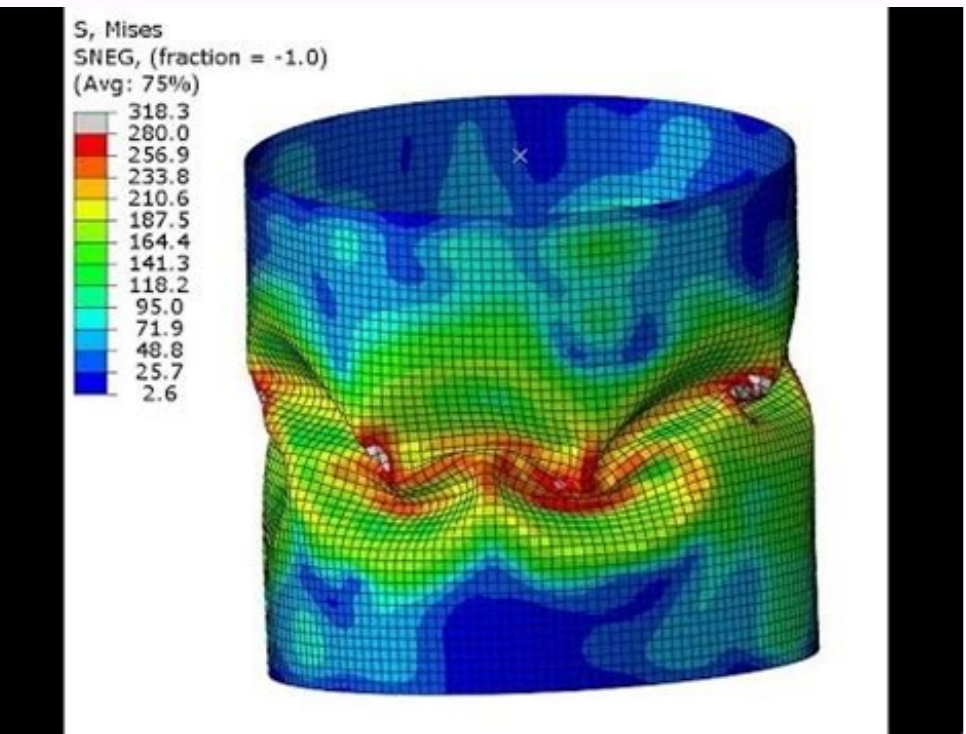


Table with 4 columns and 4 rows, likely representing experimental data for the buckling test. The content is too small to read accurately.

