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Few errors probably occurred in this experiment. One possible error was measuring the thickness of the rubber band because this measurement is very tiny. An error in this would make the cross-sectional area and stress calculations slightly off, but that is relatively unimportant here because only trends are being examined.

From this experiment, the findings suggest that rubber is not a perfectly elastic material contrary to popular belief.

6. Conclusion

In this lab, a rubber band was stretched and released in one inch increments while measuring the force and displacement. These values were later used to determine the engineering stress and strain for the points as well as the change in energy and the elastic modulus. It was concluded that the rubber band has undergone considerable deformation from the initial load applied onto the rubber band that untangled the rubber polymer chains. The energy lost with this deformation is the elastic hysteresis which was found out to be 7.80 J. The experiment also showed that the band was at rest for a larger deformation value. In general, there is more stress and less deformation when stretching a rubber band.

[A Few Rubber Bands More](#)



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