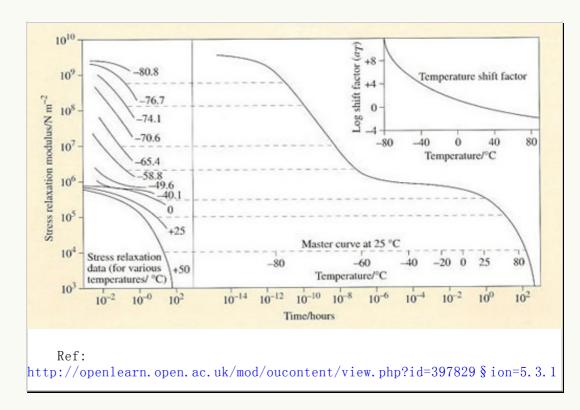
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## Topics



- 1. Continuity Equation
- 2. Navier Stokes Equation
- 3. Thermodynamics
- 4. Hooke's Law
- 5. Metal Plasticity
- 6. Mooney-Rivlin Models
- 7. Dynamic Material Properties
- 8. Materials and Tire Behavior

## Summary

This section focuses on material behavior and constitutive models that describe it. We cover the Navier-Stokes equations, Hooke's Law, Mooney-Rivlin models for quasistatic behavior of rubber, dynamic material tests and dynamic behavior of rubber, and the time-temperature equivalence of rubber. The next-to-last section addresses certain aspects of tire behavior that is dependent on rubber's dynamic material properties. The final section covers metal plasticity.



