



CRC

for

Premium

Quality

Wool

Yarn & Fabric Testing

Produced for the CRC for Premium Quality Wool undergraduate program by;
Dr. Peter Auer, The University of New South Wales.



Yarn Evenness

- **periodic**
 - results in fabric appearance faults
 - barre
 - stripiness
 - detected by Spectrograph function
- **non-periodic**
 - slubs, neps, VM, plastic
 - fabric faults
 - detected by Evenness tester settings

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for

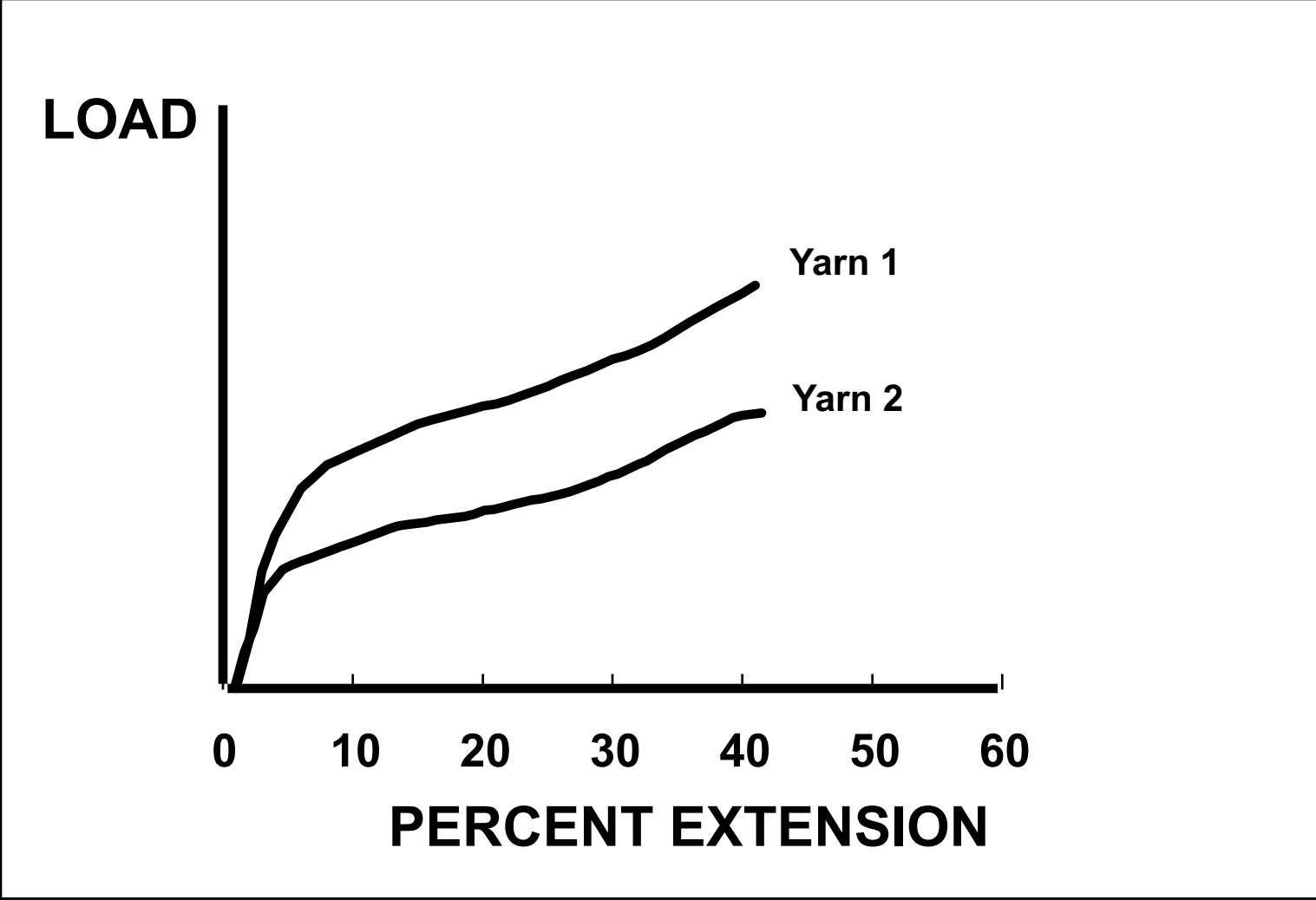
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Tensile Properties

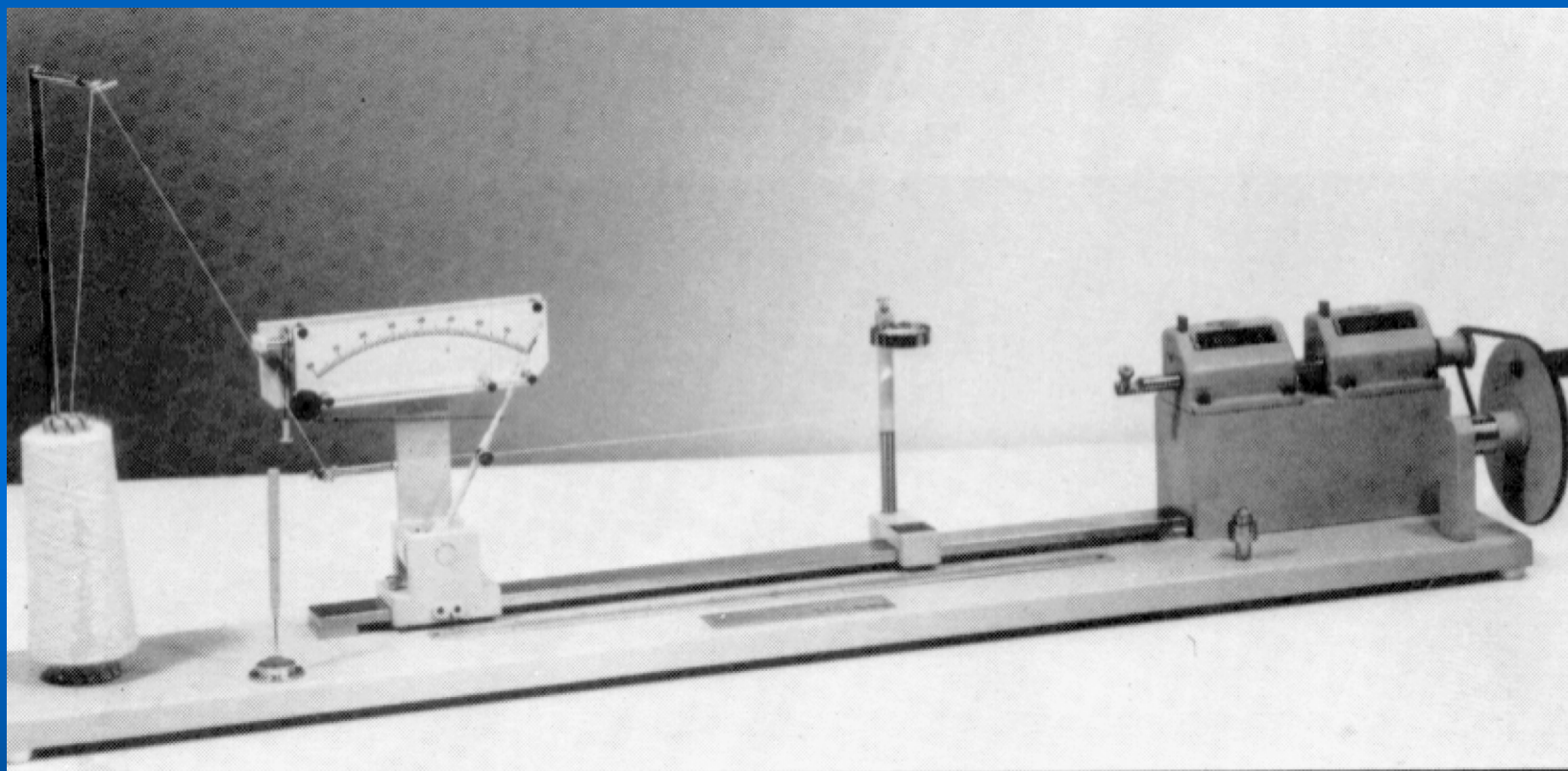


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Twist Level

- untwist / retwist method



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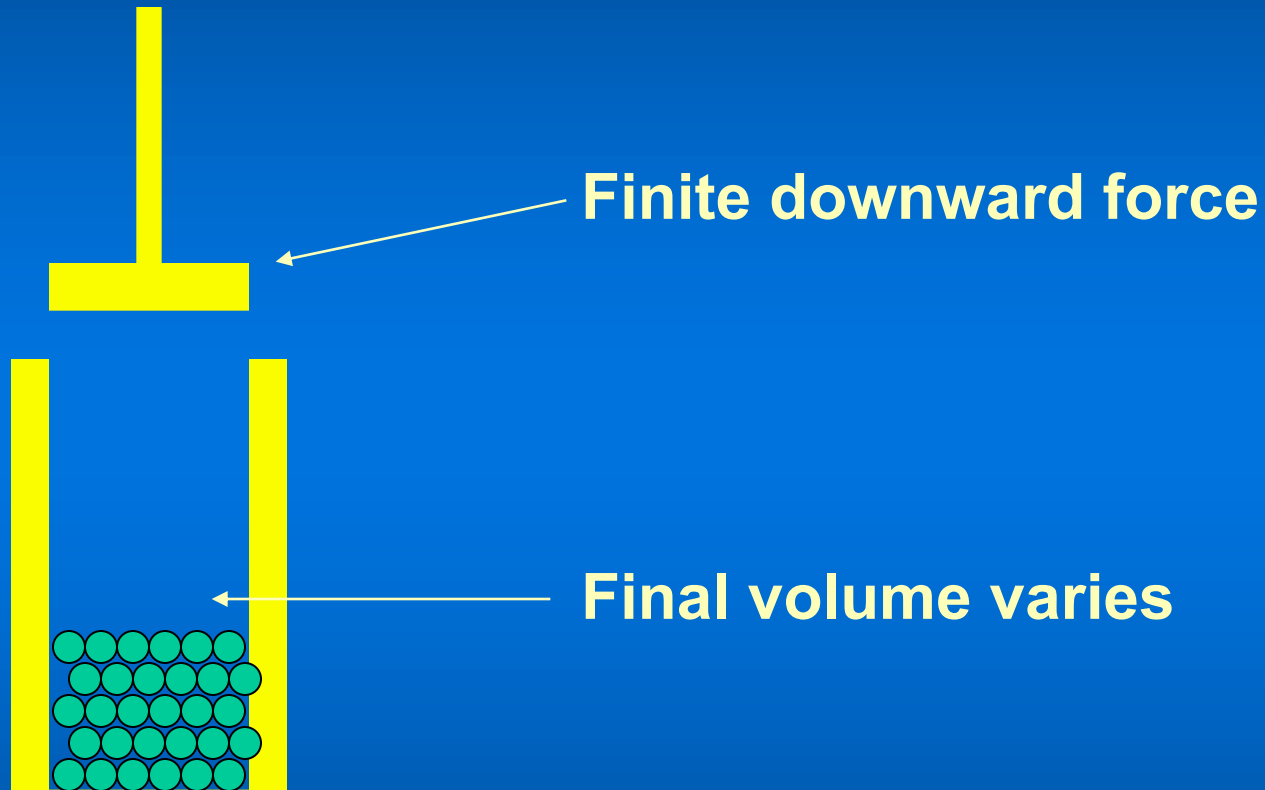
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Yarn Bulk



Output: Volume at given pressure (1 kPa)



Other Yarn Properties

- **Abrasion Resistance**
 - repetitive rubbing devices
- **Hairiness**
 - optical sensors
- **Friction**
 - capstan principle

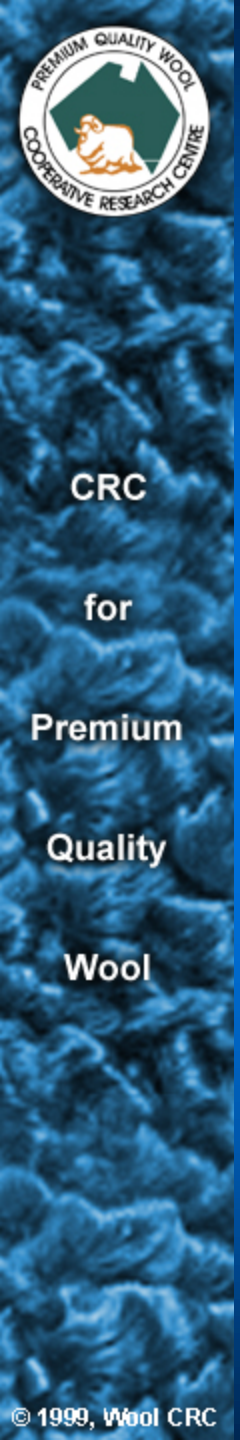
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Fabric Testing

- Crimp of Yarn from Fabric
- Fabric Weight
- Fabric Set
- Dimensional Stability
- Surface Finish
- Crease Retention
- Formability
- Beetle Resistance
- Moth Resistance
- Tensile
- Abrasion Resistance
- Pilling
- Drape
- Handle
- IWTO-37-86(E)
- IWTO-22-82(E)
- IWTO-39-87(E)
- IWTO-50-94(E)
- IWTO-51-94(E)
- DRAFT TM-36-97
- DRAFT TM-49-93
- DRAFT TM-14-97
- DRAFT TM-9-97
- not wool specific
- not wool specific
- not wool specific
- not wool specific
- not wool specific