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4. Animal Strength as a Mechanical Agent.

CHAPTER VIII.—STRENGTH OF MATERIALS.

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2. Strength of Materials to Resist Tensile and Crushing Strains.—Strength of Columns.

Sect.

3. Elasticity and Elongation of Bodies subjected to a Crushing or Tensile Strain.
4. On the Strength of Materials subjected to a Transverse Strain.—Longitudinal form of Beam of uniform Strength.—Transverse Strength of other Materials than Cast Iron.—The Strength of Beams according to the manner in which the Load is distributed.
5. Elasticity of Bodies subjected to a Transverse Strain.
6. Strength of Materials to resist Torsion.

APPENDIX

- I. Table of Logarithmic Differences.
- II. Table of Logarithms of Numbers, from 1 to 100.
- III. Table of Logarithms of Numbers, from 100 to 10,000.
- IV. Table of Logarithmic Sines, Tangents, Secants, &c.
- V. Table of Useful Factors, extending to several places of Decimals.
- VI. Table of various Useful Numbers, with their Logarithms.
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