

## Featured software

|  |  |
|--|--|
| Distillation simulator                                 | <a href="http://www.vaxasoftware.com/soft_eduen/sden.html">www.vaxasoftware.com/soft_eduen/sden.html</a>         |
| FunGraph - Graphs of mathematical functions            | <a href="http://www.vaxasoftware.com/soft_eduen/fungraph.html">www.vaxasoftware.com/soft_eduen/fungraph.html</a> |
| Design of distillation columns by McCabe-Thiele method | <a href="http://www.vaxasoftware.com/soft_eduen/mcth.html">www.vaxasoftware.com/soft_eduen/mcth.html</a>         |
| Worksheets Generators for Maths and Chemistry          | <a href="http://www.vaxasoftware.com/pc/index.html">www.vaxasoftware.com/pc/index.html</a>                       |
| Acid-base equilibrium calculator                       | <a href="http://www.vaxasoftware.com/soft_eduen/abew.html">www.vaxasoftware.com/soft_eduen/abew.html</a>         |
| Statistics and Probability tools for Windows           | <a href="http://www.vaxasoftware.com/soft_eduen/statool.html">www.vaxasoftware.com/soft_eduen/statool.html</a>   |

$$L = L_0(1 + \alpha\Delta T)$$

| Substance                  | $\alpha$<br>°C <sup>-1</sup> |
|----------------------------|------------------------------|
| Acetone                    | $1.5 \times 10^{-4}$         |
| Aluminium                  | $2.3 \times 10^{-5}$         |
| Beryllium                  | $1.1 \times 10^{-5}$         |
| Beryllium carbide          | $1.0 \times 10^{-5}$         |
| Boron carbide              | $3.0 \times 10^{-6}$         |
| Boron nitride              | $8.0 \times 10^{-6}$         |
| Brass                      | $1.9 \times 10^{-5}$         |
| Carbon steel               | $1.08 \times 10^{-5}$        |
| Cobalt                     | $1.2 \times 10^{-5}$         |
| Concrete                   | $1.2 \times 10^{-5}$         |
| Copper                     | $1.7 \times 10^{-5}$         |
| Diamond                    | $1.0 \times 10^{-6}$         |
| Ethanol                    | $2.5 \times 10^{-4}$         |
| Gallium(III) arsenide      | $5.9 \times 10^{-6}$         |
| Gasoline                   | $3.2 \times 10^{-4}$         |
| Glass                      | $8.5 \times 10^{-6}$         |
| Glass (borosilicate glass) | $3.3 \times 10^{-6}$         |
| Gold                       | $1.4 \times 10^{-5}$         |
| Graphite                   | $3.0 \times 10^{-6}$         |
| Invar                      | $1.2 \times 10^{-6}$         |
| Iron                       | $1.11 \times 10^{-5}$        |
| Lead                       | $2.9 \times 10^{-5}$         |
| Magnesium                  | $2.6 \times 10^{-5}$         |
| Mercury                    | $6.1 \times 10^{-5}$         |
| Molybdenum                 | $4.8 \times 10^{-6}$         |
| Nickel                     | $1.3 \times 10^{-5}$         |
| Oak wood                   | $5.4 \times 10^{-5}$         |
| Palladium                  | $1.2 \times 10^{-5}$         |
| Pine wood                  | $3.4 \times 10^{-5}$         |
| PVC                        | $5.2 \times 10^{-5}$         |
| Quartz                     | $5.9 \times 10^{-7}$         |
| Rubber                     | $7.7 \times 10^{-5}$         |
| Silicon                    | $3.0 \times 10^{-6}$         |
| Silicon carbide            | $2.77 \times 10^{-6}$        |
| Silver                     | $2.0 \times 10^{-5}$         |
| Stainless steel            | $1.73 \times 10^{-5}$        |
| Titanium(IV) carbide       | $7.0 \times 10^{-6}$         |
| Tungsten (wolfram)         | $4.5 \times 10^{-6}$         |
| Vanadium                   | $9.0 \times 10^{-6}$         |
| Water                      | $6.9 \times 10^{-5}$         |
| Zinc                       | $2.6 \times 10^{-5}$         |
| Zirconium                  | $3.0 \times 10^{-6}$         |
| Zirconium(IV) carbide      | $7.0 \times 10^{-6}$         |