Unit 39: Some literature

39.1. Of course, the hope is that no other literature is needed. These lecture notes are quite dense. The idea is that you "write your own book" and fill in eventual gaps or work out some parts in more detail. We live in a time where many great resources are online. The total sum of the books below are in the ten thousands. Some are there for historical reasons, like Gibbs, Cartan or Gleason. For proof literature, see Unit 24.
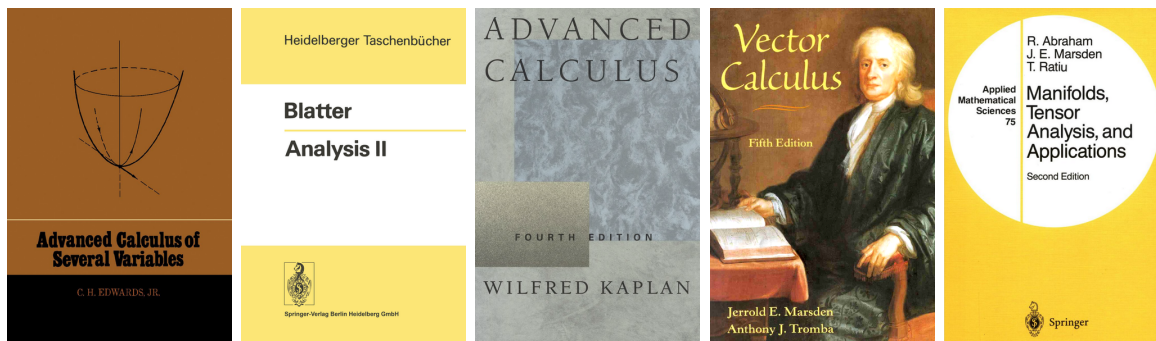
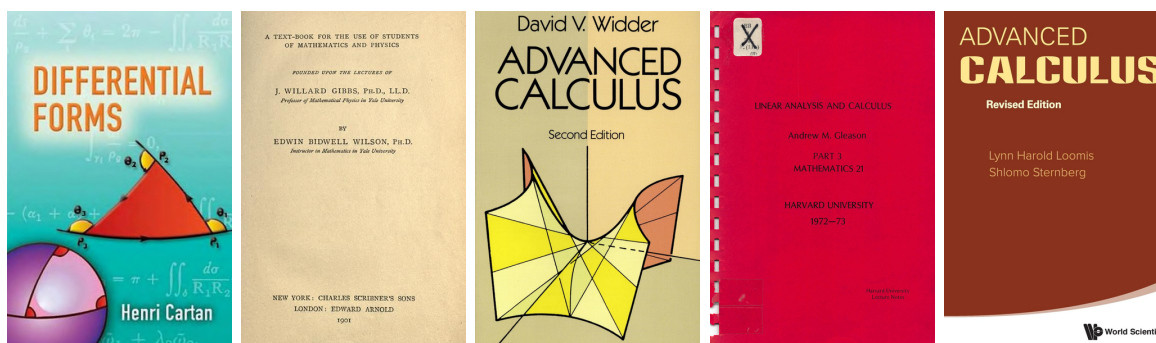FIGURE 1. Edwards, Blatter, Kaplan, Marsden-Tromba, Marsden-Ratiu

FIGURE 2. A bit more historical: Cartan, Gibbs-Wilson, Widder, Gleason, Loomis-Sternberg.

To the end, we added some physics books. Why physics? Well, we are made of **matter** and live for some **time** in **space** and essentially all calculus was developed in order to understand concepts like **space**, **time** and **matter**. There is no doubt that also in the future, both calculus and physics will remain tightly linked and continue to influence each other.
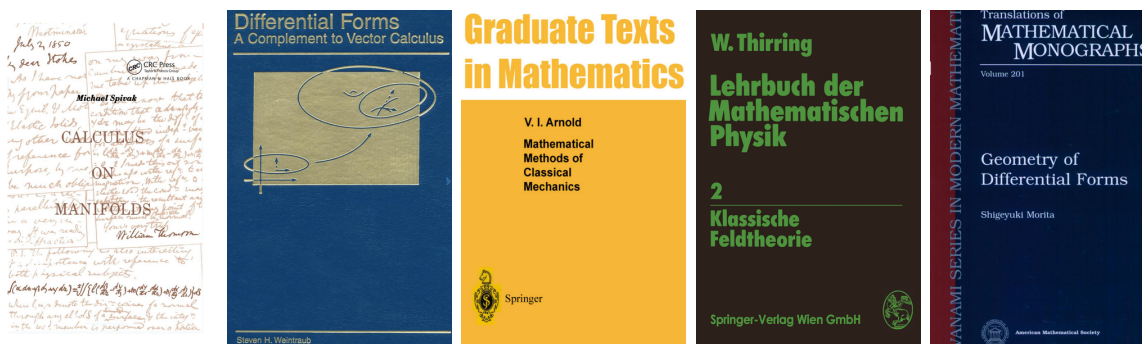
FIGURE 3.   Spivak, Weintraub, Arnold, Thirring and Morita.

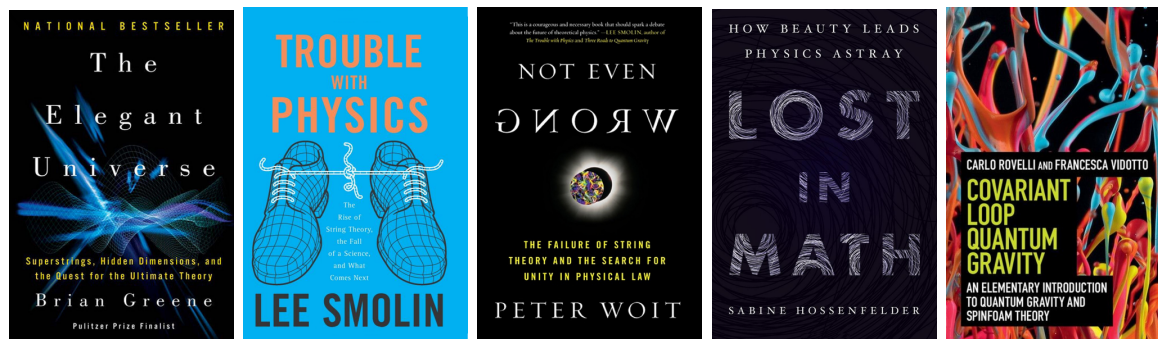FIGURE 4.   Popular choices: Adams-Thompson-Hass, Bachman, Stewart, Do Carmo and Hubbard-Hubbard.

FIGURE 5.   Puzzling times for physics. Greene (Stringy), Smolin, Woit, Hossenfelder, Rovelli-Vidotto (all not so Stringy).