

Good and Bad Abstracts

Good Abstract:

We used electron spin resonance to measure the Landé g factor for Diphenylpicryl-hydrazil (DPPH). We placed the sample in magnetic fields ranging from 0.9 mT to 4.6 mT, and subjected it to radio frequency fields ranging from 25 MHz to 120 MHz. We found a value of $g = 1.95 \pm 0.2$, which is significantly below the accepted value of 2.0036. The primary source of error was determining the precise separation between the coils used to generate the magnetic field.

Bad Abstract:

We used an oscilloscope to measure g for a sample of DPPH. We varied the frequency and magnetic field and got a value for g . We compare it to the expected value and discuss likely sources of errors.