

NUCLEAR MAGNETIC RESONANCE SPECTROMETER



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ABSTRACT

The nuclear magnetic resonance spectrometer was constructed. It consists of an rf unit, a lock-in amplifier, an audio oscillator and phase shifter, a constant magnetic field, a recording meter, a cathode rays oscilloscope, a crystal oscillator, a communication receiver, and a motor and reduction gears. It was used to observe the resonant signal of proton in hydrocarbon substances. The samples used were glycerol, olive oil and rubber. The resonant signals from these samples were discussed.

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