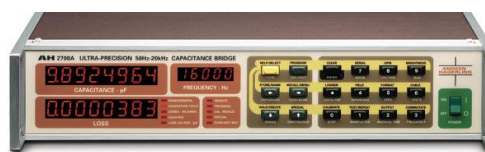


Laboratory of dielectric properties measurements

(study of molecular dynamics in liquid dielectrics and testing of isolating materials)
RNDr. Milan Timko , CSc., ÚEF SAV, Košice, timko@saske.sk



AH2700A ultra precision capacitance bridge

- Frequency range: 50 Hz – 20 kHz
- Precise measurement of capacity, permittivity, loss factor and conductivity of dielectrics
- Measurements of extremely low dissipation factor down to $1.5 \times 10^{-8} \tan \delta$



Agilent E4980A LCR Meter

- Measurement of inductance, capacity and resistivity in a frequency range: 20 Hz – 2 MHz.
- Study of relaxation processes in complex liquids.



Etel ADTR-2K plus

- Automatic dielectric constant, Tan delta and Resistivity Test Set
- Temperature range: 20 – 110 °C



Agilent 33210A signal generator

- Generator of sinusoidal and square waveform functions in a frequency range from 0 up to 10 MHz.
- Amplitude of the output signal: 10 mV – 10 V

Trek – High-voltage power amplifier

- DC and AC voltage amplifier with a fix gain 4000V/V
- Input signal voltage range: 0 V to +/- 10 V DC, AC
- Output current range: 0 A to +/- 15 mA
- Input impedance: 25 kΩ
-



PD-4, Presco AG – Partial discharge measuring system

- Testing of liquid and solid isolator for high voltage applications
- PD ranges: 10, 100, 1000, 10 000, 100 000 pC

