About the Cover
Bob Larkin, W7PUA, describes an impedance measuring system with a high accuracy impedance range from 5 Ω to 50 kΩ, and from one-tenth to ten-times that range with reliable good-quality measurements. It is based on the Teensy Arduino microprocessor and covers the 10 Hz to 40 kHz frequency range. It also measures amplitude and phase in transmission mode. A built-in touch screen along with serial control through an USB cable controls the instrument.

Features

2 Perspectives
Kazimierz “Kai” Siwiak, KE4PT

3 DSP-Based Vector Network Analyzer for 10 Hz to 40 kHz
Bob Larkin, W7PUA

15 An Optimized Grounded Base Oscillator Design for VHF/UHF
Ulrich L. Rohde, N1UL and Ajay K. Poddar, AC2KG

27 The Arduino: An Electronic Tinkertoy
Matthew H. Reilly, KB1VC

33 Tech Notes

35 Letter to the Editor

36 Upcoming Conferences

Index of Advertisers
ARRL.................................Cover III
DX Engineering:......................19
Kenwood Communications:.........Cover II

Nemal Electronics International, Inc:.........34
SteppiR Communication Systems:.......Cover IV
Tucson Amateur Packet Radio:.............35