



websites of note

by Zoltan Nagy

Automotive Battery Training Manual

A very detailed manual on the use and care of lead-acid batteries, including important hazard warnings and safety instructions. Safety precautions. How a battery works. Battery construction. Battery ratings. Effects during discharge. Effects during charging. Battery care and maintenance. Common battery causes of failure. New battery installation. Battery testing.

- First National Battery Company
- <http://www.battery.co.za/download/dl/AutoTrainMan.pdf>

Lithium Batteries

Variety of information on lithium batteries. General safety precautions for using, handling, and designing. General features. Coin type rechargeable lithium batteries. Comparison table of lithium battery types. Applications. Selecting a battery. Battery selector chart.

- Panasonic Corporation
- <http://industrial.panasonic.com/www-data/pdf/AAA4000/AAA4000PE12.pdf>

Battery Handbooks

Several detailed handbooks on different battery systems. Alkaline. Alkaline miniature. Carbon zinc. Lithium iron disulfide. Lithium-photo/coin. Nickel-metal hydride. Silver oxide. Zinc air miniature.

- Energizer Battery Manufacturing Company
- <http://data.energizer.com/Static.aspx?Name=AppManuals>

Gamry Instruments

Electrochemical Instrumentation and Application Notes

A variety of application and technical notes about electrochemical instrumentation and measuring techniques; many related to batteries, supercapacitors, and corrosion. Impedance spectroscopy, quartz crystal microbalance, potentiostats, faraday cage, reference electrodes, etc.

- <http://www.gamry.com/application-notes>

About the Author

ZOLTAN NAGY is a semi-retired electrochemist. After 15 years in a variety of electrochemical industrial research, he spent 30 years at Argonne National Laboratory carrying out research on electrode kinetics and surface electrochemistry. Presently he is at the Chemistry Department of the University of North Carolina at Chapel Hill. He welcomes suggestions for entries; send them to nagyz@email.unc.edu.

In the **NEXT** issue of **INTERFACE**

- **REDCAT™**... The Society's new professional search and networking site is the cover story for the fall 2012 issue of *Interface*. Find out about the latest additions to the site, including a job board. Find a group you'd like to join, such as the one to discuss Li ion batteries, or start your own discussion. See the latest research coming from one of several scientific news feeds, and see who's recently joined. There's a lot to see, learn, and do on Redcat.
- **CONDUCTING POLYMERS** will also be featured in the fall 2012 issue. Guest edited by **Durga Misra** and **Peter Hesketh**, the issue will include several feature articles: "Novel MEMS Devices

Based on Conductive Polymers," by **Seiichi Takamatsu** and **Toshihiro Itoh**; "Nanoparticle-doped Electrically Conducting Polymers for Flexible Nano-Micro Systems," by **Ajit Khosla**; and "Electrochemical Assay of GSTP1-Related DNA Sequences for Prostate Cancer Screening," by **Amir H. Saheb**, **Michelle Leon**, and **Mira Josowicz**.

- **TECH HIGHLIGHTS** continues to provide readers with free access to some of the most interesting papers published in the ECS journals, including articles from the Society's newest journals: *ECS Journal of Solid State Science and Technology*, *ECS Electrochemistry Letters*, and *ECS Solid State Letters*.
- Don't miss the next edition of **WEBSITES OF NOTE** which will focus on all the ECS websites: the new ECS Digital Library, the ECS home site, and Redcat.