

Sherlock User Forum

To better accommodate the users of Sherlock Automated Design Analysis™ software, DfR Solutions has established a User Forum which will provide insight in FAQs, discussions on Sherlock releases, Feature requests, Tips and Tricks, and also where you, the user, can input your experiences. Please go to **Sherlock User Forum**. Once you enter your information you will need to wait for DfR confirmation.



UPCOMING EVENTS

- June 18:** SMTA Empire Chapter Meeting, Buffalo, NY
 - June 20:** Temperature Cycling in Electronics Webinar
 - July 22-24:** DfR Solutions visiting Bay Area
 - August 12-15:** DfR Solutions visiting Boston Area
 - August 13-14:** RoHS Reliability Summit Conference, Andover, MA
- We'd be happy to visit you when we are in your area. **Click here** to set up a meeting.

Your Turn!!!! The Klaxon is Sounding!!! Pb-free Medical Electronics

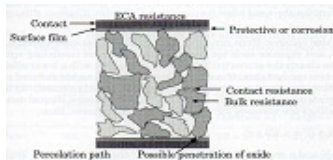
The medical industry is now going through what the commercial electronics industry did back in 2006...making the transition to Pb-free electronics. DfR has been involved with this issue since its inception. This **paper**, published in Medical Electronics Design, defines DfR's complete understanding of this issue and how we can help you make an effective and reliable transition. For more information please contact **Cheryl Tulkoff**.

IN THE NEWS

Solve Board and Product Level Vibration and Shock webinar now available for viewing. View Slides and Recording here.
Announcing Enhanced Sherlock Release 3.0: 3D functionality, global database, sub-assembly features enable easier analysis of complex boards. Read the press release.

Conductive Adhesives are Back! Or Maybe They Never Left

Conductive adhesives offer lead-free, low temperature attachment for various types of electronics applications. They are composite materials consisting of a polymer matrix (adhesion, strength) and conductive filler (electric conductivity). Understanding the intricacies of failure modes associated with these materials is the focus of this **white paper**. For more information please contact **Petri Savolainen**.



Sherlock Goes 3D

Click on the image below to view a short video about **Sherlock's New 3D Capabilities**.

Meet the DfR Folks!!

Dr. Nathan Blattau, DfR Vice President and CTO, has been involved in the packaging



and reliability of electronic equipment for over eight years. Dr. Blattau is also experienced in failure analysis and accelerated testing methods. His primary research interests are in the areas of design-for-reliability in electronic packaging, nonlinear finite element analysis, solder joint reliability, fracture, and fatigue mechanics of materials.

Nathan is the architect of DfR's highly

regarded Sherlock Automated Design Analysis software.

- Ph.D., Mechanical Engineering (University of Maryland)
- M.S., Mechanical Engineering (University of Maryland)
- B.S., Civil Engineering (University of Maryland)

Meet Nate!

More Articles of Interest:

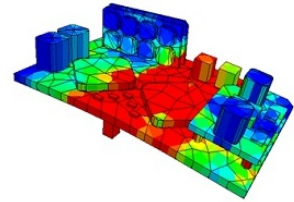
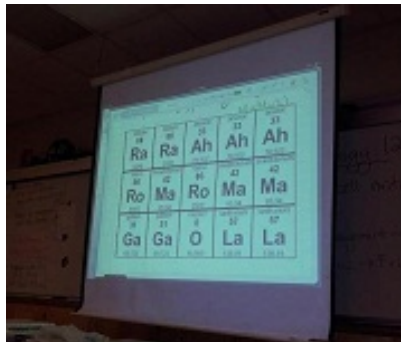
Anyone for a drink?

Electrolytic capacitors are the ancients of the electronics world. They were discovered, patented, and used long before diodes, printed circuit boards, and surface mount technology. While more recently surpassed in production volume by their smaller cousins, the ceramic capacitor, aluminum electrolytic capacitors (E-caps) are still the work house of power conversion designs. E-caps, like any electronic component, can fail in a multitude of ways. Learn more in **my article** in this month's Global SMT addresses this issue. Enjoy reading it. If you have any questions please contact me, **Craig Hillman**.

Statistical Methods for Discriminating Between Tin-Lead and Lead-free Solder Interconnect Failure Data

DfR in conjunction with Honeywell International published a paper entitled "**Statistical Methods for Discriminating Between Tin-Lead and Lead-free Solder Interconnect Failure Data.**" This paper was originally published for the 2013 International Conference on Solder and Reliability in Toronto, ON, hosted by the SMTA. Enjoy this comprehensive paper which delineates DfR's deep understanding of this topic. For more information, please contact **Craig Hillman**.

Periodically, even engineers can get musical!!!



View short video



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