

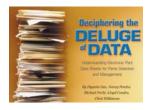


Keeping Up with the Component Information that you need to Manage Them through the Supply Chain

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Abstract:

More than 15 years back, we wrote the article on problem of gathering and utilizing electronic component data. We find that the concerns still remain and in addition to "deluge" – the issue of getting the right kind of information is a worrisome condition. Many specific aspects of the part selection and management process rely on part information collection. Completing these processes is currently challenging due to the problem of finding and obtaining component information. The additional risks that make the issues more challenging today include faster product release cycle and obsolescence, counterfeit materials and products, changes in product and processes that may or may not be publicly released, changes in the ratings of electronic parts and many others.

This form presentation will walk you through the information that you need to ensuring that you perform all the steps in component management in an informed manner including reliability assessment, uprating assessment, planning for counterfeit avoidance. We will also show the sources of information from the part manufacturers and other sources and how they can be used for making the engineering decisions and where the information available today is not useful or even misleading for the purpose of part management and what kind of common information format will be useful for the industry.

Presenter: Dr. Diganta Das (Ph.D., Mechanical Engineering, University of Maryland, College Park, B.Tech, Manufacturing Science and Engineering, Indian Institute of Technology) is an Associate Research Scientist. He had been the technical editor for two IEEE standards and is currently vice chair of the standards group of IEEE Reliability Society. He is a sub group leader for the SAE G-19 counterfeit detection standards group. Dr. Das leads the Educational Outreach of CALCE with responsibility to develop inter-organizational agreements on joint educational programs, training and internship program, and professional development. He is an Associate Editor of the journal Microelectronics Reliability. He is a Six Sigma Black Belt and a member of IEEE, IMAPS and SMTA.