

Parameterization and Optimization with ANSYS DesignXplorer on Icepak.

Introduction

With rapid advancements in technology, design engineers are under constant pressure to respond to changing market demands for innovative products with optimized performance. Over the years, leading companies have relied on ANSYS Icepak to provide thermal management solutions for their electronic devices. Icepak's optimization feature is frequently used to arrive at the best design point for an objective function.

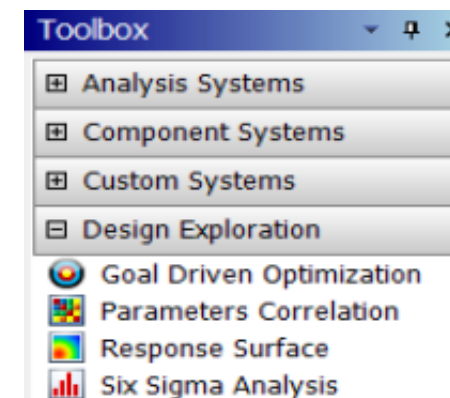
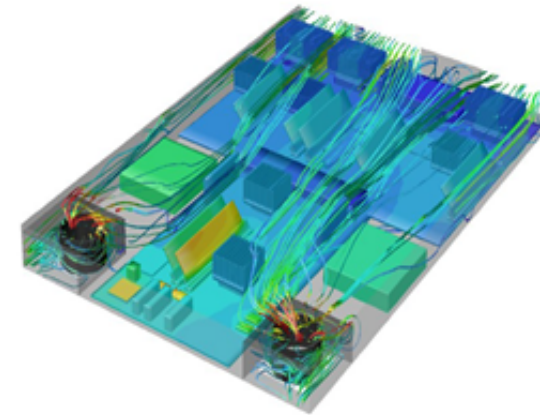
The best design point is often the result of a trade-off between various objectives. Hence, it is important to gather enough information about the current design so as to be able to quantify the influence of design variables on the performance of the product in an exhaustive manner.

Objectives

- The aim of this free workshop will provide an overview of the Icepak-DX workflow discussing the publishing of Icepak parameters into Workbench, running goal driven optimization, analyzing the response surface and performing sensitivity studies.
- This information should help design engineers to take right decision, even in the event of an unexpected change in the design constraints.

Benefits of using ANSYS Icepak-DX

- In 15.0, ANSYS Icepak can be linked to ANSYS DesignXplorer (DX) within the ANSYS Workbench framework.
- **ANSYS DesignXplorer** systems can then use any of a variety design of experiment (DOE) algorithms to efficiently and scientifically factor the design space and apply state-of-the-art response surface technology to interpolate the results.
- ANSYS DesignXplorer significantly enhances the ability of an ANSYS Icepak user to gather comprehensive insight into a given design space.



You can add design exploration systems to the ANSYS Workbench schematic – which can then be applied to all physics – with drag-and-drop simplicity.

Who Should Attend

We encourage all ANSYS users, especially Icepak users to join us for this seminar so that you can enhance your understanding of the following:

- Determine how to best approach your **Parameterization and Optimization** requirements
- Learn about latest developments to enhance your simulation and adopt best practices
- Profit from experience gained in related industrial applications

Workshop Information

Dates : 17 Apr 2014 (Thursday)
Time : 2 pm - 5 pm
Venue : CAD-IT Training Centre
159 Sin Ming Road, #03-05 Amtech Building, Singapore 575625 ([view map](#))

Facilitator's Information

NAME : Dr. Lee Yong Jiun
DESIGNATION : Applications Specialist



- This workshop is **free of charge**.
- This workshop is meant as a general overview; participants who wish to be proficient in ANSYS Icepak and/or ANSYS DesignXplorer (DX) should attend the relevant training course(s). Please email training@cadit.com.sg for enquiries.
- CAD-IT Consultants reserves the right to cancel or postpone any event due to unforeseen circumstances.

For enquiries, please call 6508-7575 or email to caditevents@cadit.com.sg.

About CAD-IT Consultants

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CAD-IT has received 70 International Awards for marketing/ service excellence. Among its most recent accolades are the Asia Pacific Entrepreneur Award (APEA) - Outstanding Entrepreneur Award 2010 and 2012, APEA Most Promising Entrepreneur Award 2009, the Singapore Prestige Brand Awards (SPBA) - Established Brand Award 2009-2012 and Regional Brand Award 2012, and KPMG's Enterprise 50 Awards 2012 & 2013.

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