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About Red Cedar Technology

Red Cedar Technology is a leading provider of software, technology and consulting services for multi-disciplinary design optimization problems.

Our proprietary optimization strategies are the culmination of over 25 years of research and development and are recognized worldwide as the most powerful and innovative approaches for engineering better products and processes.

Intuitive yet powerful, our HEEDS Professional optimization software simplifies the solution of even your most challenging design problems.

To find out more about HEEDS Professional design exploration and optimization software, or about our design consulting services, please contact us at:

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Greetings!

In this issue of *Technotes*, we highlight a variety of optimization-related materials that are now available to our engineering colleagues and customers. Also featured is a new application brief demonstrating the use of HEEDS Professional for the design optimization of progressively crushing rails. Finally, we are pleased to announce a new partner in Japan, as well as some important upcoming events.

We hope you will find this issue informative and interesting. As always, if you have questions or feedback, please don't hesitate to contact us.

Sincerely,
 The Red Cedar Technology Team
newsletter@redcedartech.com

Growing Selection of HEEDS with Guides Available

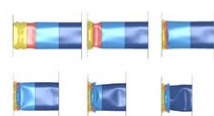
HEEDS Professional customers frequently ask us for more information about how to use HEEDS with their preferred design and analysis tools. In response to these requests, we are continually expanding our selection of *HEEDS with* guides. The following guides are currently available to our customers at no cost:

HEEDS Professional with

- Abaqus
- Excel
- NX
- Patran
- HyperMorph
- FLUENT

If you'd like to request a PDF of any of these guides, please email us at support@redcedartech.com.

Application Brief: Design Optimization of Progressively Crushing Rails



In this application brief, a new strategy is presented for using HEEDS Professional to optimize energy-absorbing rails when a progressive crush is desired. As demonstrated in the paper, this approach yields designs that consistently exhibit progressive crush behavior without significantly sacrificing the total energy absorbed.

[Read the complete brief](#) (PDF, 204KB)

Announcement: Try HEEDS Professional 5.2 for 30 Days

If you'd like the opportunity to explore HEEDS Professional 5.2, we encourage you to try our free 30-day evaluation version.

To request a trial license, simply complete a [trial license request form](#) (PDF, 193KB), and email it to license@redcedartech.com, or fax it to 517.664.1175.

Announcement: New HEEDS Distributor in Japan



We are pleased to announce that [JRI Solutions, Ltd.](#), has signed on as an official HEEDS distributor in Japan. We look forward to working closely with the JRI team to better serve our HEEDS customers in Japan.

Book Review: Evolutionary Computation in Practice

Red Cedar Technology staff members Erik Goodman, Ron Averill, and Ranny Sidhu authored a chapter entitled, "Multi-Level Decomposition for Tractability in Structural Design Optimization," in the recently published volume, *Evolutionary Computation in Practice*.

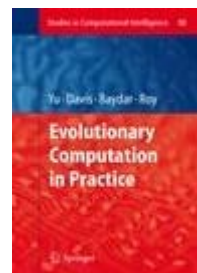
Erik Goodman, CTO of Red Cedar Technology, and Professor of Mechanical, Electrical and Computer Engineering at Michigan State University, provides the following review of the entire volume:

This book is loaded with examples in which computer scientists and engineers have used evolutionary computation - programs that mimic natural evolution - to solve real problems. They aren't abstract, mathematically intensive papers, but accounts of solving important problems, including tips from the authors on how to avoid common pitfalls, maximize the effectiveness and efficiency of the search process, and many other practical suggestions.

Some of the authors have already won "Humies"- Human Competitive Results Awards - for the work described in this book. I highly recommend it as a concentrated source of good problem-solving approaches that are applicable to many real-world problems.

Additional Publication Information:

Series: *Studies in Computational Intelligence*, Vol. 88
 Editors: Yu, T.; Davis, L.; Baydar, C.; Roy, R.
 Published 2008, XIV, 322 p. 133 illus., Hardcover
 ISBN: 978-3-540-75770-2



Upcoming Events

Red Cedar Technology staff will be traveling to Asia to give a presentation at the Japan LS-DYNA User's Conference 2008, which is being organized by our new partner, JRI Solutions, Ltd. The Conference will be held October 7-8, 2008 at the Grand Prince Hotel Akasaka (Tokyo, Japan). For more information, visit <http://ls-dyna.jri-sol.co.jp/en/event/usersweek2008.html>.

In November, we will be exhibiting at the 2008 SIMULIA Great Lakes Regional Users' Meeting, which will be held November 12-13, 2008, in Plymouth, MI. For more information about this meeting, visit http://www.simulia.com/locations/americas_greatlakes_rum08.html.

If you plan to attend either of these events, we hope you'll stop by and visit us.