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New Life for Old Equipment

Reminiscence of our last issue #8 2003 article "**Old Turbine Dilemma: Fix It, Or Replace It?**"

Now in **Energy Pulse Weekly**: for viewing the article [click here](#)
(Courtesy of CyberTech, Inc)

The problem's importance is evident as extension of turbines lifecycle is the ultimate demand in power generation. SoftInWay's team knows turbines inside and out. We can accurately analyze and dramatically improve the systems' performance by using innovative industry and SoftInWay's proprietary tools. Our synergistic approach recognizes conversions and modifications as a unified function for the application of new technology to existing turbine equipment.

Mirror of SoftInWay's Innovations

SoftInWay Contributes to Innovative Design Technology:

- **MinuteMesh™** - powerful and flexible technology platform for fast creation of parameterized mesh generators. [More>>](#)
- **ActCool™** is a software tool for fast and convenient gas turbine cooling system modeling and optimization. [More>>](#)

SoftInWay's News

Our Staff Additions

SoftInWay, Inc. announces that effective immediately Dr. Igor Tchertkov will join SoftInWay's team as a Lead Scientist of Sensor and MEMS Practice.

[More >>](#)

SoftInWay's Online Presentation

An opportunity to view our abilities in Design and Engineering Consulting at a glance!

The presentation gives an overview of visualized samples of SoftInWay's projects and solutions in different kinds of our consulting services. This presentation featured more viewer-oriented approach with separate sections pertained to a certain kind of activity, now with wide array of rotating and other kinds of machinery Design applications along with CFD, Heat Transfer, Structural/Thermostructural, Visualization and Software development.

[View >>](#)

Openings in SoftInWay

We currently invite you to explore the vacancies that the links below are leading to:

[Project Manager, Engineering Consulting](#)

[Sales Engineer/Project Manager](#)

You will join a strategically focused and highly motivated team involved in Scientific, Mechanical Engineering, Design Consulting and Software Development including architecture, design, development, migration, porting, enhancement and QA. You also will have an opportunity to work on multiple projects in a flexible, friendly environment.

Welcome to our Science Club!

New Mechanical Engineering Papers!



- New Benchmarks for Steam Turbine Efficiency
- Information Support for Turbine Operators
- Calculation of friction work for cyclic loading of joint structures

[More articles >>](#)

Mirror of SoftInWay's Innovations

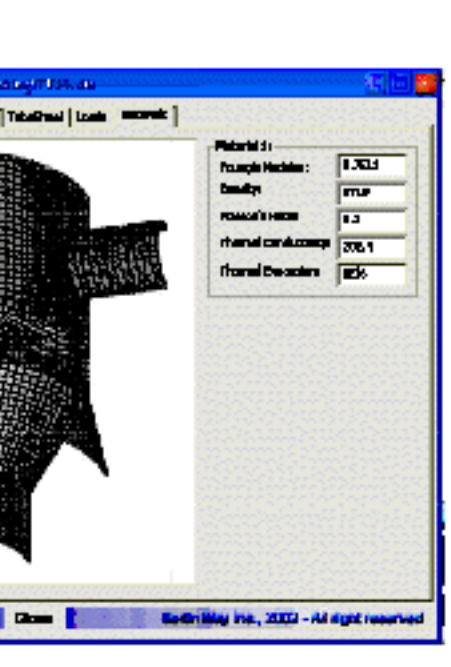
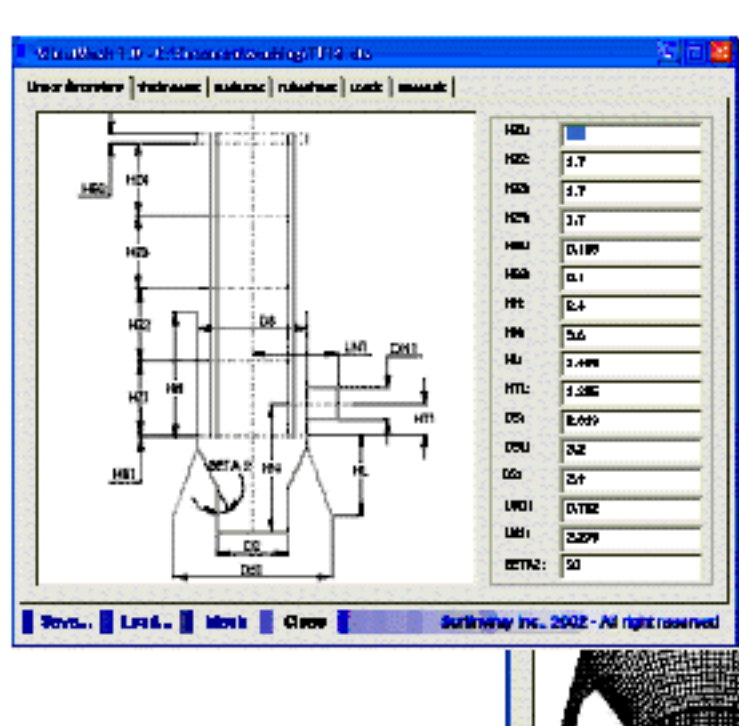
MinuteMesh™ - powerful and flexible technology platform for fast creation of parameterized mesh generators

Designers in various industries often confront a tedious repetitive task of creating a number of complex meshes of the same object, or objects with identical topology, but with different dimensions.

Moreover, sometimes analysis domain is so large and complicated that creating a mesh even once becomes a formidable task. For instance, our experience includes a case when meshing of a complete pipe-bundle (near 1000 pipes) with 100:1 aspect ratio, together with the housing and interior space was required. In such cases automatic mesher often creates mesh of unmanageable size. Mapped mesh can be reasonable, however manual meshing is extremely time-consuming. Therefore, meshing becomes the bottleneck in the design cycle.

SoftInWay offers solution to this problem, which makes mesh study and design optimization much easier, saving customer's time and money. **SoftInWay** engineers have developed a library of parameterized geometrical mesh primitives, called **MinuteMesh™** that became a platform for a rapid creation of application-oriented parameterized mesh engines.

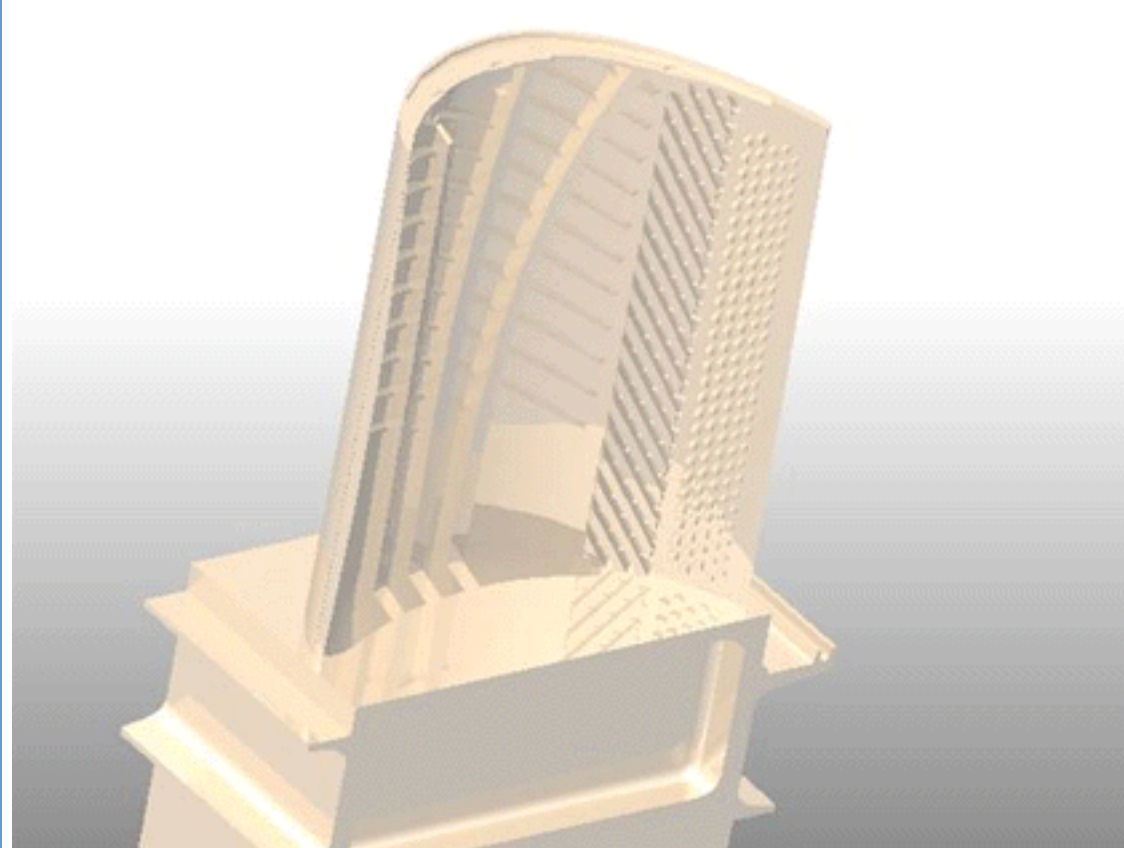
Mesh generators easily created on this platform can be extensively parameterized. Technology supports several types of parameters: geometrical dimensions, mesh specification, loads and BCs, material properties, etc. Mesh generator based on **MinuteMesh™** platform is very fast. In above-mentioned example the tool generated high quality mapped mesh consisted of 76,000 brick elements in less than a minute. As a result of it's work mesh generator creates an input file for a customer-specified solver, such as COSMOS, ANSYS, NASTRAN, etc. Finite-element model contained in the file consists of the mesh, assigned material properties and defined loads and BCs, and is ready to be loaded into the solver for immediate computation.



Please contact **SoftInWay, Inc.** for more details.

Mirror of SoftInWay's Innovations

ActCool™ - a robust software for gas turbine cooling system modeling



ActCool™ is a software tool for fast and convenient gas turbine cooling system modeling and optimisation. It has an exceptional stability, guaranteed convergence and demonstrates very good accuracy and agreement with experiments. Tool utilizes robust iterative algorithm for thermal state analysis of cooled elements of gas turbine. Thermal FEA of the cooled part provides information to hydraulic solver about temperature distribution on channels boundaries. Hydraulic solver uses this information to determine heat fluxes to the fluid and returns temperature of fluid in all channels. These new temperatures are assigned as new boundary conditions to FEA solver and iterations repeat until process converges on self-consistent temperature distribution across the cooled part.

For more detailed description [click here](#)

Staff Additions

SoftInWay, Inc. announces that effective immediately Dr. Igor Tchertkov will join SoftInWay's team as a Lead Scientist of Sensor and MEMS Practice. "Igor is charged with expanding the existing business in the area of mass flow, velocity, pressure and thermal sensing and development new business in areas of MEMS, inertial, magnetic and chemical sensing" -- said the President and CEO of SoftInWay Dr. Leonid Moroz. Igor brings to the company many years of practical experience in sensor design, modeling and optimization, with particular emphasis on micro-machined sensors. We are very pleased with Dr. Tchertkov decision to join SoftInWay".

"I am very excited with my new appointment, said Dr. Igor Tchertkov. SoftInWay has a good team of fine engineers and experts in FEA and CFD areas. Company management has a vision of applying this skill set to new areas of vertical markets, and I am eager to be a part of this expansion."

Openings in SoftInWay

Welcome to join SoftInWay Incorporate!

As we expand our base of opportunities, so does the need for adding talent resources to support our growth expands. We are always searching for staff additions that have the professional skill set, corporate discipline, and the solution development creativity to match our client's technology challenges.

Since our company was established as a Scientific and Engineering based Outsourcing Service Provider to the global IT and Mechanical Engineering world, the dominant objective of our activity is to provide "Client Specific Solutions." Technical excellence is our committed customer goal. The sharing of this goal is the fundamental core characteristic for anyone seeking a position in SoftInWay.

You will join a strategically focused and highly motivated team involved in Scientific, Mechanical Engineering, Design Consulting and Software Development including architecture, design, development, migration, porting, enhancement and QA. You also will have an opportunity to work on multiple projects in a flexible, friendly environment.

We currently invite you to explore the vacancies presented below:

Project Manager, Engineering Consulting

This individual will be responsible for all-round technical preparation and evaluation of project proposals in FEA-based CFD, Heat Transfer, Stress-Strain areas. Recommending improvements, the project's technical issues coordination including problems' review, sophisticated model description, precise boundary conditions evaluation, and gathering and analysis of other data required for providing further non-stop development process.

Also responsible for building and maintaining development schedules and fulfilling project deliverables on time, from inception to client sign-off. Beyond this, the candidate needs to have very sharp analytical skills, which s/he will use through the project life cycle, including detailed pre-development proposal analysis, projects feasibility estimation, and user requirements analysis.

Requirements:

- Masters Degree or Bachelors in Mechanical Engineering with significant related experience at Power Generation Machinery oriented companies like GE, Pratt & Whitney, Rolls-Royce, Alstom. Computed Science Degree is desirable.
- 5+ years of complex Mechanical Engineering, project management, engineering application, design, and implementation experience.
- Experience in FEA-contained packages' implementation like ANSYS and/or similar toolkits is required.
- Principle knowledge in CFD, Heat Transfer, Stress-Strain, Machine Design is extremely appreciated.
- Must be strongly focused and extremely organized.
- Proven experience in writing specifications, quality assurance, project complexity, labor effort estimation, and risk analysis skills.
- Exceptional oral and written communications skills are essential.
- PMI certification is a plus.

Sales Engineer/Project Manager

The essential job/function of this person is business development and sales of engineering/software development consulting services including:

- forecast development to achieve national sales goals,
- developing and implementing a strategic sales plan to achieve national sales goals;
- identify, close and maintain key accounts;
- provide information to marketing to improve products and profitability;
- monitor and assess major competitors' activities and products.

The person will perform sales work inside and outside of SoftInWay's engineering services for diverse industries including Aerospace, Power Generation, Automotive, Energy, Petrochemical, Utilities, Gas, etc. He/She will prepare proposals or service contracts for SoftInWay's engineering services with deep understanding of customer requirements and company's team Design and Engineering abilities in FEA-based CFD, Heat Transfer, and Structural applications development. Coordinate and schedule marketing activity. Serve as Project Manager for various projects, both temporary and ongoing.

Requirements:

- Minimum 4 year Degree in Mechanical Engineering or related areas with significant related experience at Power Generation Machinery oriented companies like GE, Pratt & Whitney, Rolls-Royce, Alstom.
- 5 - 8 years experience of surpassing sales quotas in selling consulting services to C-level executives in engineering and scientific.
- Principle knowledge in CFD, Heat Transfer, Stress-Strain, Machine Design, CAD/CAE, and Visualization is appreciated. Knowledge of MS Office and MS Project is a plus.
- Excellent prospecting and presentation skills .
- Must be strongly focused and extremely organized.
- Exceptional oral and written communications skills are essential.

We will be happy to see you in our team, supported by a whole suite of customary benefits.

About SoftInWay Corporation

SoftInWay, Inc. is an engineering company headquartered in Burlington, Massachusetts, USA. Company has a sales office in Scottsdale, Arizona, USA. Company's mission is to serve international high technology community by providing high quality engineering services and software products in the area of design and modeling of turbo-, thermo- and rotating machinery; and thermal-, structural- and fluidic analyses. Company uses its proprietary technologies, and industry standard CFD and FEA tools to address design issues at the earliest possible stage, maximize engineering productivity and increase efficiency of new and retrofitted equipment. Company collaboration with academia, industry, and customers around the world has led to a reputation for constant innovation in the complete design-to-manufacture process.

For more information, visit <http://www.softinway.com> or call 781-685-4942.

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