

Professor A. Dubi's New Book Compares Analytic and Monte Carlo Methods

Austin, TX – January 6, 2004

“System Engineering Science – Analytical Principles and Monte Carlo Methods” is the title of the new book of Professor A. Dubi, Clockwork Solutions Founder and Chief Scientist, recently published by MIRCE Science Limited, UK (www.mirce.com).

This is Professor Dubi's second book, the first being "Monte Carlo Applications in System Engineering", which provided a rigorous and comprehensive theoretical basis for the Monte Carlo method in the area of System Engineering and Reliability.

The new book focuses on the scientific approach to industrial systems and their properties. First, a discussion is provided on the meaning of a "science" and what qualifies a human discipline as a science. It is then shown that system engineering is indeed a science, and the transport nature and the equations underlying this science are described in detail. In this process many realistic examples are provided and the Monte Carlo method for solving a variety of problems is presented. This is not done in a rigorous formal manner, but rather through well-explained logical algorithms that provide transparent recipes for the solutions to a multitude of problems.

The central chapter of the new book is devoted to the question of logistics and spare parts, and their impact on the performance of the systems under investigation. In this chapter, an attempt is made to present the importance of proper scientific solutions and modeling of systems, and the apparent deficiencies of approximated analytic methods in providing wrong answers is demonstrated.

The book is intended for scientists, engineers and modelers in the area of system engineering and reliability, who wish to extend their knowledge into the basic modeling principles and to study how models can be fitted to the reality rather than to the available approximated methods.

Clockwork Solutions' proprietary modeling technology, SPAR™, is based on the principles described in Professor Dubi's books. In numerous occasions, when performing systems predictive modeling consulting and project work for customers worldwide, the results far exceeded those produced by competing analytical methods, allowing major performance improvements as well as significant resource and spare parts savings.

About Clockwork Solutions

Clockwork Solutions, Inc., (www.clockwork-solutions.com) develops and markets performance based modeling and simulation products and provides modeling services. Clockwork's proprietary modeling technology, SPAR™, uses unique Monte Carlo algorithms to build comprehensive, reliability-based predictive models of complex assets and their operational and logistics environments, such as a power plant and its distribution system, a fleet of aircrafts, a group of chemical plants, etc. Clockwork Solutions' customers include Bechtel, Chevron, Dow Chemical, US Army, Lockheed Martin, Raytheon, the Israeli Defense Forces and many others. Clockwork Solutions, Inc., is headquartered in Austin, TX, with an R&D center and European operations headquarters in Israel. Clockwork Solutions is owned by Formula Vision Technologies (TASE: FVT), a member of the Formula Group (TASE: FORT; NASDAQ: FORTY).

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