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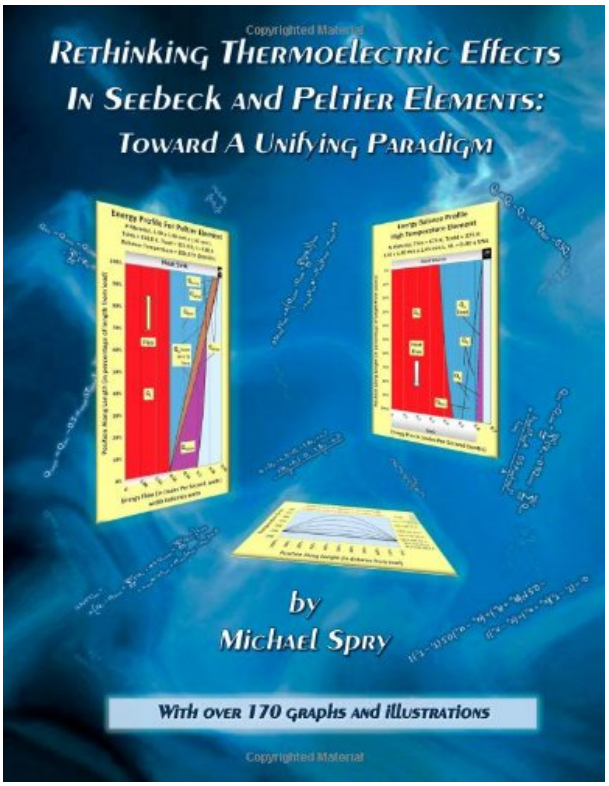

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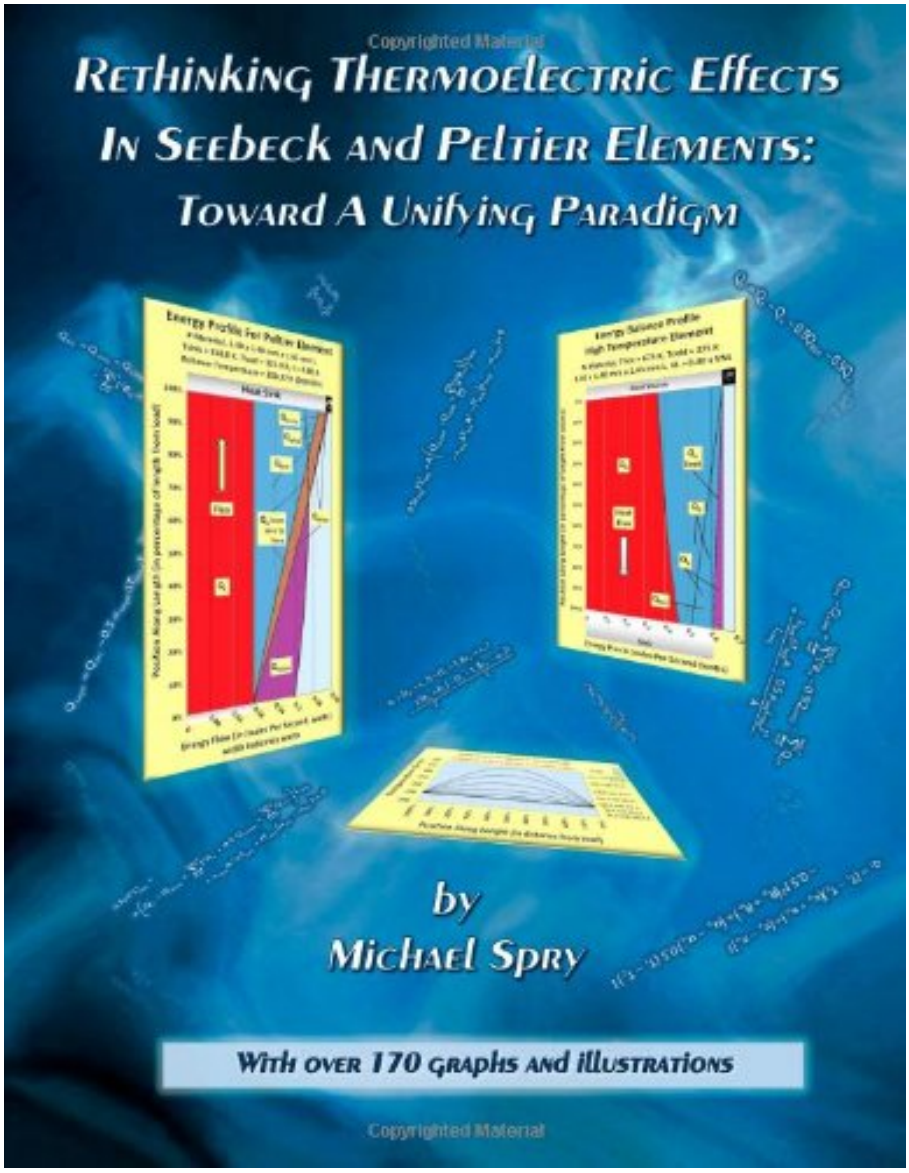

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The reader must accept the principle that even longstanding theories and hypotheses, are not unassailable and may prove faulty in the light of new discoveries and examinations of mathematical and theoretical consistency. Readers who possess these traits and who have the competence to deal with thermoelectrics from the perspective of bulk properties, should be suitable candidates for exploring this book. Furthermore, I would suggest that they have a responsibility to read this book because of what is found here and its importance to the field. For example, while it is not the central focus of the study or the text, the work ultimately uncovered the fact that William Thomson was mistaken about his proposed "third effect". He was incorrect that there was another thermoelectric property of current beyond Peltier Effect, and that it explained a difference in energy levels when current flowed from cold to hot versus hot to cold. His work only demonstrated the existence of that disparity in energy levels; it did not prove the presence of the effect. Readers of this book will learn how the four basic bulk properties easily account for the differences which Thomson explored--there was no need for "Thomson Effect". This is just the most 'dramatic' implication which comes out of the book--there are others--and it was hardly an expectation when the project was begun. I suggest that readers check any cynicism at the front cover and freely consider the content as it is offered. The concepts are slowly and progressively developed in great detail to make logical points. I have strived to make the book one of the most thorough presentations on thermoelectric fundamentals and interactions to date. It should prove quite enlightening.

Enjoy!

Michael Spry About the Author

Michael Spry brings a somewhat unorthodox background into this project. He earned a BS in psychology from Michigan State University in 1974 and was a practicing social worker for five and a half years before undertaking studies in electronics. He earned an AAS in electronics technology in 1982 and spent four years at Northwestern Michigan College as an instructional assistant and full-time instructor in the ET program.

In 1987, the author became one of the first staff members hired for a fledgling Tellurex Corporation. Over the next 24-years, he enjoyed a multifaceted career in the thermoelectric industry, designing products, production & test equipment, engineering software, computer models & analytical tools, and writing much of the company's web-based educational material. He became one of the chief experts on analysis of power generation systems and custom thermoelectric modules.

Spry left Tellurex in September of 2011 after a reorganization, and began the work which led to Rethinking Thermoelectric Effects In Seebeck and Peltier Elements: Toward A Unifying Paradigm. Over the course of the next two years, he developed concepts of longitudinal energy balance with respect to operational thermoelectric elements, assuring that the Laws of Thermodynamics were satisfied throughout. Supported by his own computer models, his work led to a series of discoveries, hypotheses, and insights which impacted upon fundamental theory. The first edition was published in November of 2013.

The author is also a novelist and author of other non-fiction works. In addition to his solo books, he has contributed to anthologies and periodicals.

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