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Título: Engineering Principles In Everyday Life For Non-Engineers

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Sinopsis

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This book is an excellent introduction to engineering for all audiences, especially for high school and college students interested in the fields. It can be used in general education classes for technical content, for encouraging high school students into thinking about STEM, or general non-fiction reading. The book is about the role of some engineering principles in our everyday lives and how engineers use them in the design and analysis of the products and systems which they work.

Whether the concept of entropy, the moments of inertia, the natural frequency, the Coriolis acceleration, or the electromotive force, the roles and effects of these phenomena are the same in a system designed by an engineer or created by nature. This shows that learning about these engineering concepts helps us to understand why certain things happen or behave the way they do, and that these concepts are not strange phenomena invented by individuals only for their own use, rather, they are part of our everyday physical and natural world, but are used to our benefit by the engineers and scientists.

Learning about these principles might also help attract more and more qualified and interested high school and college students to the engineering fields. Each chapter of this book explains one of these principles through examples, discussions, and at times, simple equations. Many books are supposedly written for "dummies." This is not one of them. The assumption within is that people are intelligent and with perseverance and patience they can learn about new subjects. It is for anyone interested in learning how the world works