

THE NEW ENGINEERING

by Eugene F. Adiutori

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The New Engineering presents a science of engineering that is conceptually and mathematically much simpler than conventional engineering. The simplicity results from *abandoning* contrived parameters such as resistances and coefficients, and dealing *separately* with the real parameters from which resistances and coefficients are contrived.

The following is from a review in the 10/02 issue of *Chemie Ingenieur Technik*. It was written by J.L.A. Koolen, author of *Design of Simple and Robust Processing Plants* (reviewed in the 10/03 issue of *Chemical Engineering Progress*), and recipient of the Chairman of the Judges Award 2003 from The Institution of Chemical Engineers.

... this book ... should have the interest of the scientific as well as the engineering world . .

In his excellent work, Adiutori explains the difference between the conventional and new engineering approach . . .

The advantage of the new engineering method is that it greatly simplifies the solution of non-linear problems.

In the book, the application of new versus conventional engineering method is well illustrated for the scientific engineering fields of electricity, heat transfer, mechanical stress, and fluid flow.

Striking are the examples about stability phenomena of resistive electrical systems and of heat transfer systems. With simple manual calculations, the non-linear behavior is demonstrated and the oscillation and hysteresis effects shown.

The work is well written and worth reading . . . It is applicable to the whole engineering field . . .

The New Engineering is published by Ventuno Press (ventunopress@aol.com). It is available in paperback (\$14.95) and hardcover (\$24.95), and can be obtained at Amazon.com or book stores.