



# Similitude and Modelling (Fundamental Studies in Engineering)

*E. Szűcs*

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**Similitude and Modelling (Fundamental Studies in Engineering)** E. Szücs

Similitude and Modeling describes the theoretical aspects and application of similitude method using mathematical apparatus.

This book is organized into two parts encompassing 13 chapters, and begins with an introduction to a simple technological problem in similitude modeling. The first part deals with the concept, physical fundamentals, dimensional analysis, and approximate and partial modeling of similitude. This part explores also the preparation and evaluation of similitude experiments, as well as the general types of similitude invariants. The second part highlights the application areas of similitude modeling, including heat conduction and diffusion, fluid dynamics, elastic deformation, and chemical reactions.

This book will prove useful to plant and design engineers.



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