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A Course in Approximation Theory
This textbook is designed for graduate students in mathematics, physics, engineering, and computer science. Its purpose is to guide the reader in exploring contemporary approximation theory. The emphasis is on multi-variable approximation theory, i.e., the approximation of functions in several variables, as opposed to the classical theory of functions in one variable.

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If you are a professor and want to teach a course on Approximation Techniques or in Approximation Theory, I would recommend a different book. The author presents most of his topics in a non-linear format, with barely any structure. Mid way through the book, I am at a loss as to what the author's main idea is...

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Elliott Ward Cheney Jr. - Wikipedia
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