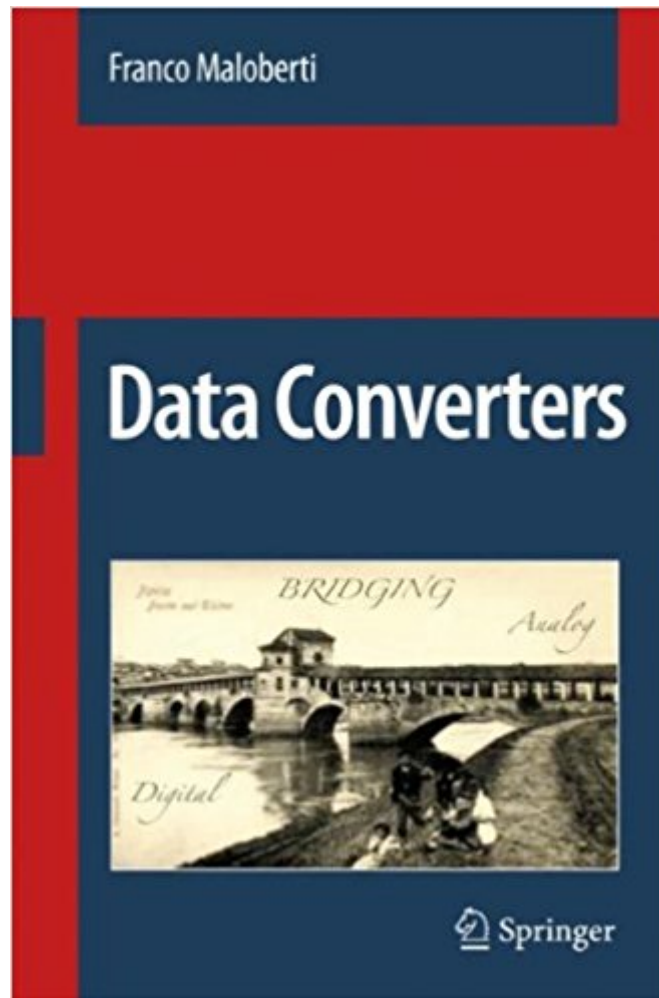


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# Data Converters



## Synopsis

This book is the first graduate-level textbook presenting a comprehensive treatment of Data Converters. It provides comprehensive definition of the parameters used to specify data converters, and covers all the architectures used in Nyquist-rate data converters.

## Book Information

Paperback: 440 pages

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Average Customer Review: 4.5 out of 5 stars [See all reviews](#) (2 customer reviews)

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## Customer Reviews

Very useful book for beginners in data converter design, verification and test. Prof Maloberti writes very intuitively and supports his presentation with sufficient mathematical exposition. The presentation explains architectural and also circuit fundamentals. I've done adc and dac design for some time now and often at the beginning of each project I refer to this book. This book has also helped Analog/mixed signal interview preparation for many folks.

I need to write this as a review of Chapters 1 (Background Elements), 2 (Data Converter Specifications), and 9 (Testing of D/A and A/D converters); since I am more user than designer of Data Converters. I think this is a good book for practicing engineers to learn about the present state-of-the-art and common "rules of thumb" which most engineers use, and which work most of the time. In my opinion, it is not good for a graduate-level textbook. The reason is a lack of rigor in certain areas, which will not give graduate students the background they will need as engineers decades from now. For example, it tells the reader to "Learn that" "The spectrum of the quantization noise is white over the entire Nyquist bandwidth". The justification for this is based on

a vague, non-mathematical discussion about assuming the noise autocorrelation goes rapidly to zero. Whilst the spectrum quantization noise turns out to be close to white for many cases, it has been shown in several papers that this is not exactly true in many cases, and can lead to an overestimation of oversampling gain. There are other places where an intuitive discussion of assumptions, mathematical rigor, leads to results that are often, but not always true. Truly excellent text books often both the rigorous and intuitive view.

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