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Understanding Delta-Sigma Data Converters Richard Schreier Analog Devices, Inc. Gabor C. Temes Oregon State University OIEEE IEEE Press iWILEY-INTERSCIENCE A JOHN WILEY & SONS, INC., PUBLICATION. Contents CHAPTER 1 Foreword xi References xii Introduction 1 1.1 The Need for Oversampling Converters 1

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The oversampled family of converters, to which the Delta-Sigma ADC belongs, aims to overcome the limitations of Nyquist-rate converters. The Delta-Sigma ADC consists of a modulator, a filter, and a decimator as shown below. Delta-Sigma ADCs are approximately 75% digital.

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