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	Titolo	Time Domain Representation of Speech Sounds : A Case Study in Bangla / / by Asoke Kumar Datta
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	Nota di contenuto	Chapter 1. Introduction -- Chapter 2. Spectral Domain -- Chapter 3. Cognition of Phones -- Chapter 4. Signal Processing -- Chapter 5. Time Domain Representation of Phones -- Chapter 6. Role of Lexical Knowledge in ASR -- Chapter 7. Random Perturbations -- Chapter 8. Non linearity in Speech signal.
	Sommario/riassunto	The book presents the history of time-domain representation and the extent of its development along with that of spectral domain representation in the cognitive and technology domains. It discusses all the cognitive experiments related to this development, along with details of technological developments related to both automatic speech recognition (ASR) and text to speech synthesis (TTS), and introduces a viable time-domain representation for both objective and subjective analysis, as an alternative to the well-known spectral representation. The book also includes a new cohort study on the use of lexical knowledge in ASR. India has numerous official dialects, and spoken-language technology development is a burgeoning area. In fact TTS and

ASR taken together constitute the most important technology for empowering people. As such, the book describes time domain representation in such a way that it can be easily and seamlessly incorporated into ASR and TTS research and development. In short, it is a valuable guidebook for the development of ASR and TTS in all the Indian Standard Dialects using signal domain parameters.