

# Deterministic Extraction from Weak Random Sources (Monographs in Theoretical Computer Science. An EATCS Series)

Ariel Gabizon



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A deterministic extractor is a function that extracts almost perfect random bits from a weak random source. In this research monograph the author constructs deterministic extractors for several types of sources. A basic theme in this work is a methodology of recycling randomness which enables increasing the output length of deterministic extractors to near optimal length.

The author's main work examines deterministic extractors for bit-fixing sources, deterministic extractors for affine sources and polynomial sources over large fields, and increasing the output length of zero-error dispersers.

This work will be of interest to researchers and graduate students in combinatorics and theoretical computer science.

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