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Plato and Digital Signal Processing: Volume 2 in the Scientist and Science Series

By Enders Anthony Robinson

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.The Greek philosopher Plato presented the Allegory of the Cave in his work The Republic. The allegory is related to Plato s Theory of Forms. The material world is known to us through sensation. Plato s Forms possess the highest and most fundamental kind of reality. In mathematical terms, we perceive the material world by means of remote sensing. For example, physicists see images in the bubble chamber, but not the elementary particles themselves. Geophysicists see seismic images, but not the underground earth itself. The received images correspond to Plato s shadows. Historically geophysicists used to look at the recorded seismic records without any processing at all. From their mental analysis, they ascribed a structure to the underground earth, but they would mistake appearance for reality. In 1952, digital signal processing (DSP) freed geophysicists from this practice. They could deconvolve the recorded seismic records and thereby obtained the true form of the underground structure of earth. They found Plato s reality. Deconvolution is now used in all fields of science. A person speaks into a mobile phone. It...



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