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Today complex
numbers have
such widespread
practical
use--from
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engineering to a

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eronautics--that few people would expect the story behind their derivation to be filled with adventure and enigma. In *An Imaginary Tale*, Paul Nahin tells the 2000-year-old history of one of mathematics'

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most elusive numbers, the square root of minus one, also known as i . He recreates the baffling mathematical problems that conjured it up, and the colorful characters who tried to solve them. In 1878,

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when two
brothers stole a
mathematical
papyrus from the
ancient Egyptian
burial site in
the Valley of
Kings, they led
scholars to the
earliest known
occurrence of
the square root
of a negative
number. The

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papyrus offered a specific numerical example of how to calculate the volume of a truncated square pyramid, which implied the need for i . In the first century, the mathematician-engineer Heron of Alexandria

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encountered I in
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fudged the
arithmetic;
medieval
mathematicians
stumbled upon
the concept
while grappling
with the meaning
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numbers, but
dismissed their

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square roots as nonsense. By the time of Descartes, a theoretical use for these elusive square roots--now called "imaginary numbers"--was suspected, but efforts to solve them led to

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intense, bitter
debates. The
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was put to use
in complex
analysis and
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physics in
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both a general and scholarly interest in mathematics, Nahin weaves into this narrative entertaining historical facts and mathematical discussions, including the application of complex numbers

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Lamont, using
seismic waves to
explore the
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the atmosphere
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(seismic or
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vertical which
act to refract

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the respective waves. The refraction in turn allows one to calculate the respective background structure in these mediums, indirectly exploring locations that are hard to observe

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otherwise.

Monitoring these signals also allows one to discover various phenomena, both natural and man-made (some of which have military applications).

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