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Understanding

Helical Scanning

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Helical
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**The Science
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the Science of

Review ...

Unlike conventional
circular microCT

scanners, which

typically scan the

sample at its midpoint,

helical scanning

provides a spiral route

that covers the whole

sample from bottom to

top, using algorithms

to create a seamless

image composed of

data that's consistently

in focus. Helical

scanning can

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Review

significantly improve
researchers' failure
analysis results.

Three Ways Helical Scanning Can Improve Your Materials ...

The helical path of the tape around the drum can clearly be seen.

Helical scan is a method of recording high-frequency signals on magnetic tape. It is used in open-reel video tape recorders, video

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cassette recorders,
digital audio tape
recorders, and some
computer tape drives .

Helical scan -

Wikipedia

Helical Scanning.

Helical scanning solves
this problem by moving
the sample axially by
one pixel with every
rotation step of the
scan. Each part of the
object describes a
helix, as the sample
simultaneously rotates

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and moves axially. In contrast, with a standard “circular” scan the object parts rotate in a circle on the same plane. In a helical scan, every cross-section is reconstructed with orthogonal geometry, which eliminates the problem of Defrise cone angle artefacts.

What is Helical Micro-CT? | Blue Scientific

Understanding helical

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scanning. Baltimore :

Williams & Wilkins,

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The left- and right-

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handed supramolecular

helical aggregates in

the dried films have

been characterized

using spectroscopy,

scanning electron

microscopy, and

transmission electron

microscopy techniques.

Solvent polarity

driven helicity

inversion and

circularly ...

Differential scanning

calorimetry (DSC) is a

powerful tool to

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address some of the most challenging issues in glass science and technology, such as the nonequilibrium nature of the glassy state and the detailed thermodynamics and kinetics of glass-forming systems during glass transition, relaxation, rejuvenation, polyamorphic transition, and crystallization. The utility of the DSC

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technique ...

The Science Of

**Understanding Glass
through Differential
Scanning ...**

We spectroscopically monitored a nucleation process in the self-assembly of p-conjugated molecules into helical supramolecular fibrillar structures. The data support a nucleation-growth pathway...

Probing the Solvent-

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Assisted Nucleation Pathway in ...

Researchers can now assemble helical nanowires out of cubic magnetite nanocrystals by tuning interactions that bind or separate them. Singh et al. floated the nanocrystals on a liquid and aligned...

Self-assembly of magnetite nanocubes into helical ...

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The Online Of
Helical computed

tomography scan (HCT) is the preferred radiographic test to confirm or exclude the diagnosis of nephrolithiasis. 7 HCT does not require radiocontrast and can visualize uric acid stones (traditionally considered radiolucent). 7

Typically, the HCT will show a ureteral stone or evidence of recent passage (e.g.,

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perinephric stranding
or hydronephrosis).

Review

**Spiral Computer
Assisted
Tomography - an
overview ...**

Conclusion: In this randomized study, helical computed tomographic scanning was an accurate technique with which to assess graft dilation. For a 6-month follow-up interval, the Köper-knitted polyester

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structure dilated less than the warp-knitted structure.

Can knitting structure affect dilation of polyester ...

...
In examinations of the head, the helical CT mode is used mainly for the purpose of generating three-dimensional reformations or to minimize motion-related artifacts. In

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general, routine head studies are done using an axial mode, and CT angiography (CTA)

studies of the head and neck are done using a helical mode.

IMAGING PROCEDURES and PROTOCOLS

Evidence of helical thylakoid arrangement by scanning electron microscopy. LászlóA A. Mustárdy, ... This structure leads towards

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a better understanding of the functional role of grana in photosynthetic processes. ... Evidence of helical thylakoid arrangement by scanning electron microscopy. Plant Science Letters, 16 ...

Evidence of helical thylakoid arrangement by scanning ...

Fast throughput, high-quality analysis: Helical

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scanning and a large cone angle combined with proprietary autofocus and drift correction delivers the highest signal-to-noise ratio. Efficient scans of representative volumes provide ready-to segment raw data that reduces the need for digital manipulation.

**HeliScan™ microCT
for Materials Science**

J.D. Bernal, known as

"Sage," was an

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extraordinary man and
multifaceted character.

A scientist of dazzling
intellectual ability and
a leading figure in the
development of X-ray
crystallography, he
was a polymath, a
fervent Marxist, and
much admired
worldwide.

**Amazon.com: J. D.
Bernal: The Sage of
Science ...**

With single-slice helical
CT, an increased pitch

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can decrease the radiation dose to the patient if all other parameters are constant. The purpose of this study was to determine whether the same relationship holds for a particular multislice helical CT system (Somatom Plus 4 VZ multislice helical CT scanner, version A11A) in our department.

Dose and Pitch

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Relationship for a

Particular Multislice

CT ...
A radar antenna at the front of an aeroplane, helicopter, drone, missile or other flying structure is there to scan its surroundings, identify objects (such as terrain, buildings, cars, ships and aeroplanes), and then either avoid them or track them.

The future of flying

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antennas - Physics

World Science Of

Science and

technology on fast
forward: Science and
technology feed off of
one another, propelling
both forward. Scientific
knowledge allows us to
build new technologies,
which often allow us to
make new
observations about the
world, which, in turn,
allow us to build even
more scientific
knowledge, which then

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inspires another
technology ... and so

on. As an example,
we'll start with a single

...

**Science and
technology on fast
forward -**

**Understanding
Science**

Researchers have
demonstrated a new
endoscope that
uniquely combines
photoacoustic and
fluorescent imaging in

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a device about the thickness of a human hair. The device could one day provide new ...

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