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Deposition  
Vapor Deposition  
is physical vapor  
deposition, or PVD, a  
technique where a  
substance is transformed  
into a vapor and  
condensed onto a  
substrate, sometimes  
using a magnetron to  
create a plasma. It  
sounds ...

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#### Vapor

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Vacuum Sputtering  
With A Homemade  
Magnetron

DLC coatings are applied using physical-vapor deposition (PVD) or plasma-enhanced chemical-vapor deposition (PECVD). In PVD, carbon from a solid source, such as a graphite target, is knocked off ...

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Carbon coating  
toughens up parts

The materials are useful  
in extrusion,  
blowmolding, and  
injection molding  
applications. DLC are  
applied by a process  
called plasma-assisted  
chemical vapor  
deposition (PACVD).

The PACVD process is

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Tooling Corner:

Boosting productivity of  
molds with diamond-  
like coatings

This discovery suggests  
that deep elastic strain  
engineering (ESE) (18,  
19), in which very high  
( $>5\%$ ) tensile and/or  
shear elastic strains are  
induced in diamond,



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may allow for physical

... microwave ...

Vapor  
Deposition

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Achieving large uniform  
tensile elasticity in  
microfabricated  
diamond

Based on its recent  
analysis of the Asia-  
Pacific market for  
nanocoating deposition,  
Frost & Sullivan  
recognizes Nanofilm ...

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NTI Commended by  
Frost & Sullivan for Its  
Proprietary Technology  
for Nanofilm  
Deposition, the Filtered  
Cathodic Vacuum Arc  
(FCVA)

Metal coatings can also  
be applied as markers to  
catheters and stents  
using such methods as  
chemical vapor

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deposition (CVD),  
physical vapor  
deposition ... ions from  
the plasma (small  
circles) bombard ...

## Review

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Critical Insight:  
Marking Devices with  
Radiopaque Coatings  
PVD, also known as  
"sputtering," is an  
alternative to metal-  
organic chemical vapor

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deposition (MOCVD).

PVD is a purely physical process that involves plasma sputter bombardment rather than a chemical ...

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Veeco Develops a Tool to Reduce Epitaxy Costs and Increase LED Brightness

We are examining the deposition of ceramic

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thin films on medical devices using pulsed laser deposition, chemical vapor deposition ... The researchers report that the breakthrough is the first ...

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10 Nanotech Breakthroughs You Should Know About (Updated)

*Page 13/18*

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This includes thermal spray processes, physical vapor deposition, chemical vapor deposition and cladding ... His current research interests are in the treatment of materials by thermal spraying ...

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Technical training

They obtain an

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enhanced understanding  
of ion implant, physical  
vapor deposition and  
plasma etch and the  
inner workings of MOS  
devices and analog and  
digital integrated  
circuits. By their fourth  
year, ...

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Microelectronic

Engineering BS

The company designs

*Page 15/18*

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and manufactures

Plasma Etching systems

... matrix structure or are  
formed as

nanostructured films on

a substrate by physical

or chemical vapor

deposition processes.

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Nanotechnology

Companies in the USA

NTI has developed a

revolutionary filtered



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cathodic vacuum arc  
(FCVA) technology that  
leverages a plasma  
source and ... with the  
conventional physical  
vapor deposition  
(PVD)-based sputtering  
...

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*Page 17/18*

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