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Recent adaptations of the basic principle have included ways to use adaptive optics to enhance two-photon resolution, as a potential route to endoscopy platforms capable of carrying out deep-brain ...

~~MIT enhances two-photon imaging to~~

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~~view deep blood vessels~~

It is more of an engineering text, or perhaps an applied mathematics text ... another recent development that provides a very general solution to the nonlinear filtering problem. It is hoped that this ...

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~~Chapter 13 – Nonlinear Kalman
Filtering~~

5 Leibniz Institute for Applied
Geophysics, Stilleweg 2 ... See allHide
authors and affiliations Earth's climate
system is complex and inherently
nonlinear, which can induce some
extraneous cycles in ...

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~~Organic carbon burial is paced by a ~ 173 ka obliquity cycle in the middle to high latitudes~~

More recently, finite element packages have been extended to include nonlinear static stress ... part where the analysis will predict the response

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of the part due to applied loading. This response is ...

~~6 things all engineers should know
before using FEA~~

After the thermal-resistance signal is converted and amplified, the nonlinear ... solution to be measured is placed in

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the middle of the cell and a constant voltage alternating current is applied ...

~~9 Different Types of Sensor Transmitters~~

Every control system actuator has limited capabilities ... construction described in Section 6.3 is applied to a

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class of nonlinear plants consisting of all fully actuated Euler-Lagrange systems. In ...

~~Modern Anti-windup Synthesis:
Control Augmentation for Actuator
Saturation~~

We specialise in applied robust design

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(to minimise the effect of uncertainties)
and predictive control (dealing with
saturations, constraints and limited
sensing) to deliver solutions to
industry's' ...

~~Rolls Royce Control, Monitoring and
Systems Engineering University~~

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~~Technology Centre~~

Chinese researchers from the
Technical Institute of Physics and
Chemistry (TIPC) of the Chinese
Academy and Sciences (CAS) have
proposed a new ...

~~Green Environment friendly Micronano~~

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~~3D Printing of Hydrogel Proposed in
Aqueous Phase~~

Control hierarchy This hierarchical approach is applied by analyzing the causes of the disturbances ... linear programming or quadratic programming methods. The more complex and nonlinear the system ...

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~~How to Use Model Predictive Control to Improve the Distillation Process~~

Given the desired destination and access to a mapping system, electronic control and ... they produced a solution – the extended Kalman filter – for the nonlinear navigation problem.

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~~Kalman filters have applications from
moon to motorway~~

In general, he is interested in
numerical solution of PDEs ... with
nondissipative boundary conditions,
and to control problems for a
mathematical model of an energy

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harvester. Sedi Bartz Nonlinear ...

~~Applied Mathematics~~

VSDs help operators to control the motor at any command speed. They provide energy savings and regulation capabilities while extending the life of equipment. VSDs are non-linear

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electrical loads ...

~~Advances in Variable Speed Drives
Ease Complications~~

CS 51400/MA 51400 - Numerical
Analysis Iterative methods for solving
nonlinear equations; linear difference
equations, applications to solution of

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polynomial equations ... and detection
theory that ...

~~CSE Core Courses~~

Scientific and engineering principles of
fuel cell systems, including
fundamental electrochemistry, applied
thermodynamics ... Analysis and

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design techniques for nonlinear systems with a focus on ...

~~Course List~~

Topics include fundamentals of automation, programmable logic controllers, numerical control, industrial robotics ... Classical

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principles of differential calculus are applied in solving nonlinear ...

~~Industrial and Management
Engineering~~

In terms of quality control ... applied to industrial scenarios; it can achieve small samples as well as high-

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accuracy of AI detection. The algorithm is based on linear mathematics, non-linear ...

~~SG Solar launches whole process visual inspection platform for PV module production~~

Applied mathematics research in our

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department spans ... My research centers on the modeling, simulation and control of complex nonlinear systems, multiscale computing, integration of asymptotic and ...

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