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~~Michael Moore~~

~~Presents: Planet of the  
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~~Reduction, Lecture 2~~

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~~Curve Fitting with~~

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Linear & Nonlinear  
: Math Teacher Tips

~~Yann LeCun Self  
Supervised Learning~~

~~ICLR 2020~~ Machine  
Learning for Reduced-  
Order Modeling (Prof.  
Bernd R. Noack)

Nonlinear Regression in

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Linear versus nonlinear  
Introduction to System  
Dynamic Mode  
Identification Elías

Cueto, \"Model order  
reduction methods for  
computational...\"

| WCCM XI - ECCM V  
- ECFD VI, 2014

Perturbation methods  
for nonlinear PDEs  
(Lecture - 01) by Vishal  
Vasan Nonlinear Model  
Fitting using Excel Fit



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Nonlinear Model to  
Data with Excel  
Differential Equations -  
4.10 Non-Linear ODEs  
~~L4DC 2020 Livestream~~  
~~(Thursday, June 11)~~  
Solving Non linear and  
Parametric Engineering  
Problems Using  
Symbolic Computation  
Nonlinear Model Order  
Reduction Via  
In this manuscript, we  
propose a novel

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## Nonlinear Model

reduction framework for obtaining Reduced Order Models (ROMs) of large-scale, nonlinear dynamical systems. We advocate the use of Nonlinear Moment Matching (NLMM) with the Dynamic Mode Decomposition (DMD) to get a much efficient dimensionality reduction scheme.

While NLMM does not

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require the expensive computation of the time-displaced snapshot ensemble of the Full Order Model (FOM) in the offline stage, DMD avoids the evaluation of the nonlinear term ...

Nonlinear Model Order  
Reduction via Nonlinear  
Moment ...

2.1 Proper Orthogonal  
Decomposition Model

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Reduction. Consider a large-scale nonlinear dynamical system of the form.  $\dot{x} = f(x) + Bu$ ; (1) where  $x(t) \in \mathbb{R}^n$  is the state of (large) dimension  $n$ ,  $t \geq 0$  denotes time,  $u(t) \in \mathbb{R}^m$  is a time-dependent input of dimension  $m$ ,  $B \in \mathbb{R}^{n \times m}$  is the input matrix, the nonlinear.

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## Reduction via Lifting ...

Abstract. This paper presents a structure-exploiting nonlinear model reduction method for systems with general nonlinearities. First, the nonlinear model is lifted to a model with more structure via variable transformations and the introduction of auxiliary variables. The lifted model is equivalent to

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Order Reduction Via  
Dynamic Mode  
Decomposition  
the original model; it  
uses a change of  
variables but introduces  
no approximations.

Nonlinear Model Order  
Reduction via Lifting ...

The study concerns the  
application of Nonlinear  
Moment Matching  
(NLMM) with Dynamic  
Mode Decomposition  
(DMD) as a simulation-  
free platform to obtain

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reduced-order models of large-scale nonlinear dynamical systems.  $\square$  NLMM solves the simplified Sylvester equation to obtain the projection basis for the reduced manifold.  $\square$

Nonlinear model order reduction via Nonlinear Moment ...

Other methods for nonlinear model

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reduction use data-driven approaches via dynamic mode decomposition (DMD) and Operator Inference.

More recently, certain input-independent model reduction methods such as balanced truncation and the iterative rational Krylov algorithm (IRKA) have been extended to quadratic-



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Order bilinear systems.

## Reduction Via Dynamic Mode reduction

## Nonlinear Model Order Reduction via Lifting Transformations and Proper Orthogonal Decomposition.

## Nonlinear Model Order Reduction via Lifting Transformations and Proper Orthogonal Decomposition. Boris

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Kramer<sup>1</sup>. Massachusetts  
Institute of Technology,  
Cambridge,  
Massachusetts 02139  
and Karen E. Willcox<sup>2</sup>.

Nonlinear Model Order  
Reduction via Lifting ...  
STORM: A Nonlinear  
Model Order Reduction  
Method via Symmetric  
Tensor Decomposition  
Abstract<sup>1</sup>Nonlinear  
model order reduction

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Order has always been a challenging but important task in various science and engineering fields. In this paper, a novel symmetric tensor-based order-reduction method (STORM) is presented for simulating large-scale nonlinear systems.

**STORM: a nonlinear  
model order reduction**

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method via Author ...

(2021) Nonlinear Model  
Order Reduction via  
Nonlinear Moment

Matching with Dynamic  
Mode Decomposition.

International Journal of  
Non-Linear

Mechanics 128, 103625.

(2020) A nonintrusive  
reduced order model for  
nonlinear transient  
thermal problems with  
nonparametrized

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variability. Advanced  
Modeling and  
Simulation in  
Engineering  
Sciences 7:1.

Nonlinear Model  
Reduction via Discrete  
Empirical ...  
NONLINEAR MODEL  
ORDER REDUCTION  
VIA DYNAMIC  
MODE  
DECOMPOSITION

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ALESSANDRO

ALLAY, J. NATHAN

KUTZ z Abstract. We  
propose a new technique

for obtaining reduced

order models for

nonlinear dynam-ical

systems. Speci cally, we

advocate the use of the

recently developed

Dynamic Mode

Decomposi-

NONLINEAR MODEL

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## ORDER REDUCTION VIA DYNAMIC MODE DECOMPOSITION

Abstract—Nonlinear model order reduction has always been a challenging but important task in various science and engineering fields. In this paper, a novel symmetric tensor-based order-reduction method

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(STORM) is presented for simulating large-scale nonlinear systems. The multidimensional data structure

STORM: A Nonlinear Model Order Reduction Method via ...

A new approach for the dimensional reduction via projection of nonlinear computational models based on the



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concept of local reduced-order bases is presented. It is particularly suited for problems characterized by different physical regimes, parameter variations, or moving features such as discontinuities and fronts.

Nonlinear model order reduction based on local

# Read Online Nonlinear Model reduced ...

ManiMOR: Nonlinear  
Model Order Reduction  
via Projection on  
Nonlinear Manifolds

(PDF) ManiMOR:  
Nonlinear Model Order  
Reduction via ...

STORM: A Nonlinear  
Model Order Reduction  
Method via Symmetric  
Tensor Decomposition

Jian Deng, Haotian Liu,  
*Page 26/36*

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Kim Batselier, Yu-  
Kwong Kwok and Ngai  
Wong Department of  
Electrical and Electronic  
Engineering The  
University of Hong  
Kong {dengjian,htliu,ki  
mb,ykwok,nwong}@ee  
e.hku.hk

Abstract Nonlinear  
model order reduction  
has always been a  
challenging but  
important task in

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various science and ...

## Reduction Via A Nonlinear Model Dynamic Mode Order Reduction

### Method via ... - of ...

The trial elastic stress is used to determine plastic admissibility based on the value of the yield function:

$$\begin{aligned} \varphi &= \frac{1}{2} \xi^{\text{trial}}(\underline{\sigma}_{n+1})^2 \end{aligned}$$

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$$\frac{1}{3} \sigma_{\{y\}^{\{2\}}}$$
$$(\epsilon_{\{n+1\}^{\{p\}}}) \end{aligned}$$

## Decomposition

Enhanced model-order reduction approach via online ...

We propose a new technique for obtaining reduced order models for nonlinear dynamical systems. Specifically, we advocate the use of

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the recently developed  
Dynamic Mode  
Decomposition (DMD),  
an...

## Decomposition

(PDF) Nonlinear Model  
Order Reduction via  
Dynamic Mode ...  
Nonlinear Model Order  
Reduction via Lifting  
Transformations and  
Proper Orthogonal  
Decomposition.

08/06/2018 by Boris

*Page 30/36*

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Kramer, et al. 0 share

This paper presents a structure-exploiting nonlinear model reduction method for systems with general nonlinearities. First, the nonlinear model is lifted to a model with more structure via ...

Nonlinear Model Order  
Reduction via Lifting ...  
Model Reduction via

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Projection onto  
Nonlinear Manifolds,  
with Applications to  
Analog Circuits and  
Biochemical Systems.

Chenjie Gu and Jaijeet  
Roychowdhury.

{gcj,jr}@umn.edu. ECE  
Department, University  
of Minnesota, Twin  
Cities.

Abstract—Previous  
model order reduction  
methods fit into the



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frame-work of  
identifying the low-  
order linear subspace  
and using the linear  
projection to project the  
full state space into the  
low-order subspace.

Model Reduction via  
Projection onto  
Nonlinear Manifolds ...  
A Trajectory Piecewise-  
Linear Approach to  
Model Order Reduction

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of Nonlinear Dynamical  
Systems by Michal  
Jerzy Rewieniski M.S.,  
Computer Science

Technical University of  
Gdansk, Poland, 1998

Submitted to the  
Department of Electrical  
Engineering and  
Computer Science

A Trajectory Piecewise-  
Linear Approach to  
Model Order ...

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We propose a new technique for obtaining reduced order models for nonlinear dynamical systems.

Specifically, we advocate the use of the recently developed Dynamic Mode Decomposition (DMD), an...

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