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*Contravariant,*

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language of  
Maxwell's  
equations, fluid*

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Differentiating  
Under The**

**Integral Sign**

**(HBD Feynman)**

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**MATHEMATICS:**

**Matrix and**

**Tensors Mod-01**

**Lec-03 Vectors**

**and Tensors**

*Scalar Quantity*

*Page 12/53*

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*and Vector*

*Quantity |  
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~~Directions for~~

~~Tensor Networks:~~

~~Machine Learning~~

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Physics *If You*

*Want to See How*

*Deep the Mind*

*Can Go, Watch*

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Conversations  
with Tom Tensor  
Calculus for  
Physics Ep. 9 /  
Derivatives of  
Tensors, and the  
Affine  
Connection*

---

Machine Learning  
Techniques for  
Quantum Many-  
Body Physics -

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## Lecture 1 **Tensor Techniques In Physics Learning**

The systematic study of transformations is the subject of the tensor calculus, to be developed later in more detail; but even at this point it is useful to

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anticipate a  
simple  
convention to  
distinguish  
quantities which  
follow the two  
transformation  
laws in (1.9):  
the indices that  
label quantities  
behaving like  
the basis  
vectors  $e_i$  will  
be left in the



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sub-script  
position, but  
those that label  
quantities  
transforming  
like the vector  
components

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Machine learning  
meets quantum  
physics Machine-  
learning

techniques were  
recently used to  
build Al-phaGo,<sup>2</sup>  
a robot that has  
defeated the  
world's When  
applying machine  
learning to  
physics  
problems, a

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straightforward  
strategy is to  
use supervised  
learning, in  
which A renowned  
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such states is  
the tensor-  
network A deep  
learning ...

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Tensor  
Techniques In  
Physics: a  
concise  
introduction by  
Roy McWeeny.

Publisher:

Learning

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Institute 2011

Number of pages:

30. Description:

Contents: Linear

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vector spaces;  
Elements of  
tensor algebra;  
The tensor  
calculus (Volume  
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Maxwell's  
equations).

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**introduction ...**

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Problems Physics  
based machine

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Learning: the unknown function is approximated by a deep neural network, and the physical constraints (and many other machine learning techniques) and numerical schemes share the same computational

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model:

composition such  
as a scalar, a  
vector, a matrix  
or a tensor A  
node . . .

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## **Development ...**

As a tool, tensors and tensor algebra is widely used in the fields of physics and engineering. It is a term and set of techniques known in machine learning in the training and

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operation of  
deep learning  
models can be  
described in  
terms of  
tensors. Tensors  
in Python

## **A Gentle Introduction to Tensors for Machine Learning with ...**

The supervised

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Tensor learning  
(STL) [36] is  
developed to  
extend the  
vector-based  
learning  
algorithms to  
accept tensors  
as input. That  
is, we learn a  
series of  
projection  
vectors  $w_k \in \mathbb{R}^{L_k}$   
 $k=1 \dots M$  and a

# Where To Download

bias  $b$ ?  $R$  to  
determine the  
class label  
 $\{+1, -1\}$  of a  
measurement  $X$ ?  
 $R^{L_1 \times L_2 \times \dots \times L_M}$   
according to a  
multilinear  
decision  
function  $y(X) =$   
 $\text{sign}[X \cdot M]$

**Supervised  
tensor learning**

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Common tensor learning tasks include tensor decomposition (finding a low rank approximation of a given tensor), tensor regression (which extends linear regression to the multi-linear

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setting) and

tensor

completion

(inferring a

tensor from a

subset of

observed

entries).

## **Adaptive Tensor Learning with Tensor Networks**

guistics,

recurrent neural



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networks used in machine learning, and tensor networks which encompasses a set of optimization techniques for high-order tensors used in quantum physics and numerical analysis. We

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First, present an intrinsic relation between WFA and the tensor train decomposition, a particular form of tensor network.

**Connecting  
Weighted  
Automata, Tensor  
Networks and ...**

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One way of  
simulating some  
quantum circuits  
efficiently is  
using tensor  
networks. Tensor  
networks are  
graphical  
representations  
of tensor, which  
can be thought  
of as  
multidimensional  
arrays of

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numbers. A rank-0 tensor is just a scalar. A rank-1 tensor is a vector. A rank-2 tensor is a matrix, and so on into higher dimensional arrays that become difficult to visualize after rank-3.

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**Simulating  
Quantum Circuits  
with Tensor  
Networks | by**

**Learning**

Nonnegative  
Tensor

Factorization

NTFk is a novel  
unsupervised  
Machine Learning  
method based on  
Tensor

Decomposition

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coupled with  
sparsity and  
nonnegativity  
constraints.

NTFk is  
developed in  
Julia.

**TensorDecomposition : Machine  
Learning /  
Unsupervised ...**  
provide concrete  
examples of

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Tensor  
decomposition  
applications in  
machine  
learning,  
conduct a case  
study on tensor-  
based estimation  
of mixture  
models, talk  
about the  
current state of  
research, and  
provide

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references to  
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software  
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## INTRODUCTION

Tensors are  
generalizations  
of matrices to  
higher  
dimensions and

## **Introduction to Tensor Decompositions**



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(Finding a low rank approximation of a given tensor),  
tensor regression (which extends linear regression to the multi-linear setting) and tensor completion (inferring a

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Tensor from

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The need for  
probabilistic  
deep learning.  
Physics-based  
(i.e., domain-

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based) analytics have been used successfully for decades to design and operate systems in industries as diverse as aerospace ...

**Industrial AI:  
BHGE's Physics-  
based,  
Probabilistic**

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## **Deep . . .**

Tensor analysis,  
branch of  
mathematics

concerned with  
relations or  
laws that remain  
valid regardless  
of the system of  
coordinates used  
to specify the  
quantities. Such  
relations are  
called

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covariant.

Tensors were invented as an extension of vectors to formalize the manipulation of geometric entities arising in the study of mathematical manifolds.. A vector is an entity that has



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both magnitude

## Techniques In

**Tensor analysis**

**| mathematics |**

**Britannica**

In part one, we

introduce some

tensor basic

operations,

including tensor

decomposition.

In part two,

applications of

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Tensor in  
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including  
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supervised...

**(PDF) A survey  
on Tensor  
techniques and  
applications in  
...**

A comparable

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Testing accuracy is achieved when Extreme Learning Machine is treated with tensor decomposition techniques. The results reveal that by incorporating tensor decomposition techniques such

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as PARAFAC and  
TUCKER  
decomposition,  
training time in  
Extreme Learning  
machine is  
reduced than  
that of basic  
Extreme Learning  
Machines. 6.2.3.

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2b9adf4bfd9ea2a4  
213b63a5602c7bd0

# Learning Development Insute