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Amazon.com: Quantum Field Theory: From Operators to Path ...

Algebraic quantum field theory is another approach to the axiomatisation of QFT, in which the fundamental objects are local operators and the algebraic relations between them.

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Axiomatic systems following this approach include Wightman axioms and Haag-Kastler axioms .

Quantum field theory - Wikipedia

1 Introducing Quantum Fields 1. 1.1 The Classical String 1. 1.2 Renormalization 5. 1.3 The Quantum String 5. 1.4 Second Quantization 6. 1.5 Creation and Annihilation Operators

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9. 1.6 Bose and Fermi
Statistics 11. 2 Scalar
Fields 17. 2.1 Klein-
Gordon Equation 17.
2.2 Real Scalar Field
18. 2.3 Energy and
Momentum 19. 2.4
Particle Spectrum 21.
2.5 ...

Quantum Field Theory: From Operators to Path Integrals ...

The transition from a
classical field theory to
a quantum field theory

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is characterized by the occurrence of operator-valued quantum fields $\hat{\phi}(x,t)$, and corresponding conjugate fields, for both of which certain canonical commutation relations hold. Thus there is an obvious formal analogy between classical and quantum fields: in both cases field values are attached to space-time points, where these values are specified by

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real numbers in the
case of classical fields
and operators in the ...

Quantum Field Theory (Stanford Encyclopedia of Philosophy)

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Huang. 3.33 · Rating
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reviews Quantum field
theory arose at the
beginning of the
quantum era. Since

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that time its domain
has been expanded to
cover particle physics,
condensed matter
physics and
astrophysics.

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Quantum
mechanically, the
variables of a field
(such as the field's
amplitude at a given
point) are represented

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by operators on a
Hilbert space. In
general, all
observables are
constructed as
operators on the
Hilbert space, and the
time-evolution of the
operators is governed
by the Hamiltonian ,
which must be a
positive operator.

Canonical quantization - Wikipedia

Wick's theorem is a

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method of reducing high-order derivatives to a combinatorics problem. It is named after Italian physicist Gian-Carlo Wick. It is used extensively in quantum field theory to reduce arbitrary products of creation and annihilation operators to sums of products of pairs of these operators.

**Wick's theorem -
Wikipedia**

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The introduction of Planck's constant is essential in the transition from a classical to a quantum theory. The factor is introduced to give the Hamiltonian (energy operator) a simple form, see below. The quantized fields (operator fields) are the following

**Quantization of the
electromagnetic
field - Wikipedia**

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Creation and annihilation operators are mathematical operators that have widespread applications in quantum mechanics, notably in the study of quantum harmonic oscillators and many-particle systems. An annihilation operator (usually denoted $\{\displaystyle \{\hat{a}\}\}$) lowers the number of particles in a given state by one.

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**Creation and
annihilation
operators -
Wikipedia**

Two definitions of a momentum operator exist in quantum field theory. The first one defines it as a conserved operator arising via the Noether's theorem for translation invariant Lagrangians; we call the arising operator the canonical (or

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physical) momentum operator, or simply the momentum operator.

On momentum operator in quantum field theory

Since, by the postulates of quantum field theory, all observable operators commute with each other at spacelike separation, messages can no more be sent through these correlations than they

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can through any other
EPR correlations; the
correlations are in
random variables.

Propagator - Wikipedia

A quantum field
becomes an operator
acting on state vectors,
and it brings about a
transition between
states with different
numbers of quantum
particles (photons),
i.e., the operator
describes the creation

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and destruction
(radiation and
absorption) of the field
quanta.

**Quantum field
theory -
Encyclopedia of
Mathematics**

In theoretical physics,
scaling dimension, or
simply dimension, of a
local operator in a
quantum field theory
characterizes rescaling
properties of the
operator under

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spacetime dilations

$\{\displaystyle x\to$
 $\lambda x\}$.

Scaling dimension - Wikipedia

This is an amazingly intuitive presentation of quantum field theory. I am a quantum field theorist and Dr. Huang's writing has taught me a lot over the years (including using his Stat Mech textbook in graduate school). The few typos

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that exist only lead to
further understanding.

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University — June 2-13,
2008

**Motives, Quantum
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...
In other words, in relativistic quantum (field) theory a relativistic-covariant position operator does not exist. Yes, it is impossible to construct an operator of position, whose components transform as components of a 4-vector. However, this does not mean that a relativistically invariant position operator does not exist.

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Operators To Path Integrals Position and momentum operators in quantum field theory ...

The basic objects of quantum field theory, the quantum fields, are local operators.

Although unphysical objects, they are the building blocks for any physical quantity such as the energy-momentum tensor, the conserved (or softly

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broken) currents,...

Local operator - Scholarpedia

The general theorem
can be written as (here
I'm using the notation
in Greiner & Reinhardt
(G&R), although I've
left the hats off the
operators, as all capital
letters are operators
here): $T [ABC:::XYZ]=:$

$$ABC:::XYZ: + (3)$$

$$:ABC:::XYZ: + (4)$$

$$:ABC:::XYZ: + (5)$$

$$:ABC:::XYZ: + (6)$$

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$:ABCD::XYZ: + (7)$
 $:ABCD::XYZ: (8)$
 $:ABC::WXYZ: + (9)$ all
higher order
contractions (10) The
first line is the normal-
ordered product of all
the operators, with no
con- tractions.

A First Book of Quantum Field Theory Field Quantization

An operator A "carries"
a quantity a of a
physical observable O

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if, when it acts on an eigenstate of O , it yields another eigenstate whose eigenvalue is higher by a , which is equivalent to $[O, A] = a A$.

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