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even though their
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general theory of relativity? While it might seem far-fetched to claim so, it will be worth remembering that the finest theoretical physicists like Albert Einstein and Paul Dirac did not believe in black holes, and Stephen Hawking finally thought that

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there are no exact
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black hole
pretenders. He
identified these

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organizational reasons, the end of World War II (in 1945) saw a rapid acceleration in the tempo of discovery and understanding in nuclear physics, cosmic rays and quantum field

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theory, which together triggered the birth of modern particle physics. The first fifteen years (1945-60) following the war's end ? the ?Startup Period? in modern particle physics

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-witnessed a series of major experimental and theoretical developments that began to define the conceptual contours (non-Abelian internal symmetries, Yang-Mills fields,

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renormalization
group, chirality
invariance,
baryon-lepton
symmetry in
weak
interactions,
spontaneous
symmetry
breaking) of the
quantum field
theory of three of

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the basic
interactions in
nature

(electromagnetic,
strong and weak).

But it took
another fifteen
years (1960-75) ?

the ?Heroic

Period? in

modern particle

physics ? to

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unravel the physical content and complete the mathematical formulation of the standard gauge theory of the strong and electroweak interactions among the three generations of

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quarks and leptons. The impressive accomplishments during the ?Heroic Period? were followed by what is called the ?period of consolidation and speculation (1975-1990)?,

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which includes
the experimental
consolidation of
the standard
model (SM)
through precision
tests, theoretical
consolidation of
SM through the
search for more
rigorous
mathematical

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solutions to the
Yang-Mills-Higgs
equations, and

speculative
theoretical
excursions

?beyond

SM?.Within this h
istorical-

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framework, the

author ? himself

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a practicing
particle theorist
for the past fifty
years ? attempts
to trace the
highlights in the
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evolution of
modern particle
physics from its
early beginnings
until the present

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time. Apart from
the first chapter ?
which sketches a
broad overview
of the entire field
? the remaining
nine chapters of
the book offer
detailed
discussions of
the major
concepts and

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principles that prevailed and were given wide currency during each of the fifteen-year periods that comprise the history of modern particle physics. Those concepts and principles

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that contributed only peripherally to the standard model are given less coverage but an attempt is made to inform the reader about such contributions (which may turn out to be

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significant at a
future time) and
to suggest
references that
supply more
information.

Chapters 2 and 3
of the book cover
a range of topics
that received
dedicated
attention during

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the ?Startup
Period? although
some of the
results were not
incorporated into
the structure of
the standard
model. Chapters
4-6 constitute the
core of the book
and try to
recapture much

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of the conceptual
excitement of the
?Heroic Period?,
when quantum
flavordynamics
(QFD) and
quantum
chromodynamics
(QCD) received
their definitive
formulation. [It
should be

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emphasized that, throughout the book, logical coherence takes precedence over historical chronology (e.g. some of the precision tests of QFD are discussed in Chapter 6)].

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Chapter 7
provides a fairly
complete

discussion of the
chiral gauge
anomalies in four
dimensions with
special
application to the
standard model
(although the
larger unification

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models are also considered). The remaining three chapters of the book (Chapters 7-10) cover concepts and principles that originated primarily during the ?Period of Consolidation

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and Speculation?
but, again, this is
not a literal
statement.

Chapters 8 and 9
report on two of
the main
directions that
were pursued to
overcome
acknowledged
deficiencies of

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the standard
model:
unification
models in
Chapter 8 and
attempts to
account for the
existence of
precisely three
generations of
quarks and
leptons, primarily

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by means of
preon models, in
Chapter 9. The
most innovative
of the final three
chapters of the
book is Chapter
10 on topological
conservation
laws. This last
chapter tries to
explain the

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significance of
topologically non-
trivial solutions
in four-
dimensional
(space-time)
particle physics
(e.g. 't Hooft-
Polyakov
monopoles,
instantons,
sphalerons,

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global SU(2) anomaly, Wess-Zumino term, etc.) and to reflect on some of the problems that have ensued (e.g. the "strong CP problem" in QCD) from this effort. It turns out that the more

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felicitous
topological
applications of
field theory are
found ? as of
now ? in
condensed
matter physics;
these successful
physical
applications (to
polyacetylene,

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quantized magnetic flux in type-II low temperature superconductivity, etc.) are discussed in Chapter 10, as a good illustration of the conceptual unity of modern physics.

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A vacuum,
classically
understood,
contains nothing.

The quantum
vacuum, on the
other hand, is a
seething
cauldron of
nothingness:
particle pairs
going in and out

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of existence
continuously and
rapidly while
exerting
influence over an
enormous range
of scales.

Acclaimed
mathematical
physicist and
natural
philosopher

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Luciano Boi
expounds the
quantum

vacuum,
exploring the
meaning of
nothingness and
its relationship
with physical
reality. Boi first
provides a deep
analysis of the

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interaction
between
geometry and
physics at the
quantum level.
He next
describes the
relationship
between the
microscopic and
macroscopic
structures of the

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world. In so doing, Boi sheds light on the very nature of the universe, stressing in an original and profound way the relationship between quantum geometry and the internal

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symmetries
underlying the
behavior of
matter and the
interactions of
forces. Beyond
the physics and
mathematics of
the quantum
vacuum, Boi
offers a
profoundly

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philosophical
interpretation of
the concept.

Plato and
Aristotle did not
believe a vacuum
was possible.

How could
nothing be
something, they
asked? Boi
traces the

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evolution of the
quantum vacuum
from an abstract

concept in
ancient Greece to
its fundamental
role in quantum
field theory and
string theory in
modern times.

The quantum
vacuum is a

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complex entity,
one essential to
understanding
some of the most
intriguing issues
in twentieth-
century physics,
including cosmic
singularity, dark
matter and
energy, and the
existence of the

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Higgs boson particle. Bohr explains with simple clarity the relevant theories and fundamental concepts of the quantum vacuum.

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constructs of
universal science:
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probability theory,
and derives key
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