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has been a
trained chemist
or chemical
engineer. This
background is
necessary since
some of the
processes
involve
complicated
chemical
reactions, of
which
vulcanization is

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the most
important. In
addition,
chemical
analysis of the
raw materials
and of the
completed
products may be
required.

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and

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rubbers obtained from the manufacturing plants after isolation and purification are in their pure form. These rubbers cannot be immediately processed. Compounding is necessary to impart specific

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properties to
the rubber to
make it suitable
for processing.

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An accelerator
is defined as a
compound that
increases the

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Speed of

vulcanization

and that enables

vulcanization to

proceed at lower

temperature and

with greater

efficiency.

Accelerator also

decreases the

amount of sulfur

needed to cross-

link the

polydiene thus

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improving the
aging properties
of the
vulcanized
rubber.

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compound that

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accelerators can

be classified as

Important

primary

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accelerators
include
thiazoles and
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Vulcanization,
chemical process
by which the
physical

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properties of
natural or
synthetic rubber
are improved;
finished rubber
has higher
tensile strength
and resistance
to swelling and
abrasion, and is
elastic over a
greater range of
temperatures. In
its simplest

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form, compounding
And vulcanization is
brought about by
heating rubber
with sulfur.

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Process

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can be carried

out using

several

techniques.

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is the most

common method

used in the

industry. Here

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placed in a two piece mould, one part of which is movable and the other stationary.

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Chain molecules are chemically linked together, forming networks and transforming the material from a viscous liquid to elastic solid. This is what happens during vulcanization or curing, which increases the

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Compounding and the modulus and decreases the hysteresis.

Sulphur is widely used as the vulcanization agent.

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Accelerated
vulcanization is
carried out
using various
compounds that
modify the
kinetics of
crosslinking,
this mixture is
often referred
to as a cure
package. The

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main polymers
subjected to
sulfur
vulcanization
are polyisoprene
(natural rubber)
and styrene-
butadiene rubber
(SBR), which are
used for most
street-vehicle
tires. The cure
package is
adjusted

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Vulcanization is
a cross-linking
reaction by
sulfur that
generates three-
dimensional

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was discovered
by Goodyear in
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development of
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process that
converts natural
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polydiene
elastomers into
cross-linked
polymers. The
most common
vulcanization
agent is sulfur.
It forms bridges
between
individual
polymer
molecules when
heated with
rubber. Often a

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Catalyst and
initiator is
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accelerate the
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process.

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natural rubber
or related
polymers into
materials of a
variety of
hardness,
elasticity, and
mechanical
durability by
heating them
with sulfur or
other equivalent
curatives or

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Sulfur forms

cross-linking

bridges between

sections of

polymer chains

which affects

the mechanical

and electronic

properties. Many

products are

made with

vulcanized

rubber,

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including tires,
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as an activator

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properties and
reduces the
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time. The first
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with the

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between curing
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, Luis F.

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given to curing
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aids.

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Vulcanization, a
chemical process
for converting
rubber or

related polymers
into more
durable

materials via
the addition of
sulfur or other
equivalent
"curatives" or
"accelerators".

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carbon bonds
while
importantly
leaving intact
the molecular
carbon-carbon
backbone created
by the
vulcanization
process.

NRT: New Rubber

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This invention relates to a process for the vulcanization of polychloroprene in the presence of amidine compounds and in the absence of magnesium oxide. The vulcanizates obtained by the process

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importance of
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covers all the
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advances in
elastomers,
their blends,
IPNs, composites
and

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This first volume focuses on advances on the blends and interpenetrating networks (IPNs) of elastomers.

The production of rubber and rubber products is a large and diverse

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industry. The

rubber product
manufacturing
industry is

basically

divided into two
major sectors:

tyre and non-

tyre. The tyre

sector produces

all types of

automotive and

nonautomotive

tyres whereas

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the non-tyre
sector produces
high technology
and

sophisticated
products like
conveyor belts ,
rubber seals
etc. The wide
range of rubber
products
manufactured by
the rubber
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Comprising all
types of heavy
duty earth
moving tyres,
auto tyres,
tubes,
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parts, footwear,
beltings etc.
The rubber
industry has
been growing
tremendously
over the years.

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economies and
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expected to

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The current

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that there is a

tremendous scope

for the

development of

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processing

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industries. The global market for industrial rubber products is projected to increase 5.8 % per year.

Investment in rubber industry is expected to offer significant opportunities in the near future

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and realizing
returns to
investors
willing to
explore this
sector. This
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storage of
latex. It

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then focuses on
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and
classification
of different

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rubbers, such as
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butadiene,

isoprene,

butadiene, ethyl
ene-propylene,
and chloroprene.

It also

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production,

properties, and
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but also to
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polymer science
and rubber
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it became
apparent that it
was time for an
up-date of this
book. This was
especially true
in this case,
since the
subject matter
has
traditionally
dealt mainly
with the
structure,

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properties, and
technology of
the various
elastomers used
in industry, and
these are bound
to undergo
significant
changes over the
period of a
decade. In
revising the
contents of this
volume, it was

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thought best to keep the original format. Hence the first five chapters discuss the same general subject matter as before. The chapters dealing with natural rubber and the synthetic elastomers are

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up-dated, and an entirely new chapter has been added on the thermoplastic elastomers, which have, of course, grown tremendously in importance.

Another innovation is the addition of a new chapter,

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"Miscellaneous
Elastomers," to
take care of
"old"

elastomers,

e.g.,

polysulfides,

which have

decreased some

what in

importance, as

well as to

introduce some

of the newly-

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developed synthetic rubbers which have not yet reached high production levels. The editor wishes to express his sincere appreciation to all the contributors, without whose close

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task would have
been impossible.
He would
especially like
to acknowledge
the invaluable
assistance of
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strong growth.

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deformed to a

high degree of

strain in a

reversible

manner and this

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finds use in

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transportation,

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material handling, health care, and sport and leisure activities. The book covers manufacturing processes of rubber products, compounding of rubber, quality assurance, applications etc. Thus book

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series of
interdependent
systems, such as
the elastomer

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approach is used
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attention is

given to

tradeoffs in

properties and

emphasis is

placed on

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