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hnologies
In Welding And**

*Joining and
welding are
two of the
most important
processes in*

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manufacturing.
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These
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technologies
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have vastly
improved and
are now
extensively
used in
numerous
industries.
This book
covers a wide

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topics, from
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arc welding
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(GMAW and
Other Joining
GTAW), FSW,
Technologies
laser and
hybrid
welding, and
magnetic pulse
welding on
metal joining
to the

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*application of
joining
technologies
for textile
products. The
analysis of
temperature
and phase
transformation
is also
incorporated.
This book also*

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Technologies
*discusses the
issue of
dissimilar
joint between
metal and
ceramic, as
well as the
technology of
diffusion
bonding.
Due to the
wide*

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magnesium
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alloys in
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manufacturing,
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it is very
important to
employ a
reliable
method of
joining these
reactive

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metals
Alloys, Woodhead
together and
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to other
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alloys.
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Welding and
Technologies
joining of
magnesium
alloys
provides a
detailed
review of both
established

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and new
techniques for
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alloy welding
and their char
acteristics,
limitations
and
applications.
Part one
covers general
issues in

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*magnesium
welding and
joining, such
as welding
materials,
metallurgy and
the joining of
magnesium
alloys to
other metals
such as
aluminium and*

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steel. The
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protection of
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magnesium
Other Joining
alloy welds
Technologies
are also
discussed. In
part two
particular
welding and
joining
techniques are

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reviewed, with
chapters
covering such
topics as
inert gas
welding, metal
inert gas
welding and
laser welding,
as well as
soldering,
mechanical

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techniques to
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alloys, such
as hybrid
laser-arc
welding,
activating

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flux tungsten
inert gas
welding and
friction stir,
is also
discussed.

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distinguished
editor and
expert team of
contributors,
Welding and

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*joining of
magnesium
alloys is a
comprehensive
reference for
producers of
primary
magnesium and
those using
magnesium
alloys in the
welding,*

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*automotive and
other such
industries, as
well as
academic
researchers in
metallurgy and
materials
science.*

*Provides a
detailed
review of both*

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*established
and new
techniques for
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alloys welding
and their char
acteristics,
limitations
and
applications*

*Both the
weldability of*

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magnesium
alloys and
weldability to
other metals
is assessed as
well as the
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required for
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featuring
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treatment

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Particular
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are explored
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in detail with
particular
chapters
examining
hybrid laser-
arc welding,
laser welding

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*and resistance
spot welding
The major
issue of
energy saving
and
conservation
of the
environment in
the world is
being
emphasized to*

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us to
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concentrate on
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lightweight
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materials in
Other Joining
which
Technologies
aluminium
alloys are
contributing
more in
applications
in the twenty-
first century.

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*Aluminium and
its related
materials
possess
lighter
weight,
considerable
strength, more
corrosion
resistance and
ductility.
Especially*

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*from the past
one decade,
the use of
aluminium
alloys is
increasing in
construction
field,
transportation
industries,
packaging
purposes,*

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*automotive,
defence,
aircraft and
electrical
sectors.*

*Around 85% is
being used in
the form of
wrought
products,
which replace
the use of*

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cast iron.

*Further, the
major features
of aluminium
alloy are
recyclability
and its
abundant
availability
in the world.*

*In general,
aluminium and*

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*its related
materials are
being
processed via
casting,
drawing,
forging,
rolling,
extrusion,
welding,
powder
metallurgy*

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process, etc.
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Technologies
To improve the
physical and
mechanical
properties,
scientists are
doing more
research and
adding some
second-phase
particles in
to it called

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composites in
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addition to
Publishing Series
heat
In Welding And
treatment.
Other Joining
Technologies
Therefore, to
explore more
in this field,
the present
book has been
aimed and
focused to
bridge all

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Other Joining
Technologies.

scientists who
are working in
this field.
The main
objective of
the present
book is to
focus on
aluminium, its
alloys and its
composites,
which include,

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Technologies.

but are not limited to, the various processing routes and characterization techniques in both macro- and nano-

*levels.
Written by a w
elding/metallu*

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urgical
Alloys, Woodhead
engineer with
Publishing Series
over 40 years
In Welding And
of experience,
Other Joining
Arc Welding
Technologies
Processes

Handbook
delivers the
welding and
materials
expertise
required to

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*master complex
welding
processes and
techniques to
ensure that
the task is
done correctly
and safely.
While
reinforcing an
understanding
of*

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standards and
rules. The
perfect
handbook for
those
professionals
who need an
"up- to-date"
reference to
advance*

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processes as
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well as those
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welders new to
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the field and
Other Joining
need to hone
Technologies
their skills.

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Handbook five-
part treatment
starts with a
clear and

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rigorous
exposition of
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the
applications
and equipment
Technologies
of Shielded
Metal Arc
Welding (SMAW)
and Gas
Tungsten Arc
Welding
(GTAW),

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followed by
self-contained
parts
concerning
processes
applications
and equipment
for Gas Metal
Arc Welding
(GMAW), Flux
Core Arc
Welding

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Aluminium And Its
(FCAW), and
Alloys Woodhead
Submerged Arc
Publishing Series
welding (SAW).
In Welding And
Case studies
Other Joining
Technologies
from the field
are included
to highlight
each part of
the handbook.
An applied
reference,

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each Part of
Alloys Woodhead
Arc Welding
Publishing Series
Processes
Handbook And
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Other Joining
Technologies
offers valuable
advice

regarding the
industry or
industries
where the
process is
commonly used

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Other Joining
Technologies
as well as a
description
the equipment.
The Handbook
reaches deeply
into the area
of
nondestructive
testing and
science. In
addition, this
Handbook

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In Welding And
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Technologies
*discusses the
challenges
presented by a
number of corrosion-
resistant
alloys (CRAs).
Case studies
are included
throughout the
reference to
reinforce an*

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*understanding
of how these
processes were
applied in the
field and how
they intersect
with issues
that may arise
with equipment
use and
materials.
This book*

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gathers the
proceedings of
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Energy and
Advanced
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in Surakarta,
Indonesia. It
focuses on two
relatively
broad areas –
advanced
materials and
sustainable
energy – and a
diverse range
of subtopics:

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perconductors,
Optics,
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Mesoporous

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Materials,
Crystalline
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Biomaterials,
Metamaterials,
Composites,
Polymers,

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Sustainable
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rgy-Efficient
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Energy,
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Biomass
Geothermal
Power, Non-
Fossil
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ectrification,*

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welding,
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alloys pose
significant

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well as from
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illustrate the

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Lightweight
alloys have
become of
great
importance in
engineering
for
construction
of
transportation
equipment. At

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present, the metals that serve as the base of the principal light alloys are aluminum and magnesium. One of the most important lightweight alloys are the

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aluminum
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alloys in use
for several
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components

wrought

aluminum

alloys, parts
and plates).

However, some
casting parts

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that have low
cost of
production
play important
role in
aircraft
parts.

Magnesium and
its alloys are
among the
lightest of
all metals and

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the sixth most
abundant metal
on earth.

Magnesium is
ductile and
the most

machinable of
all metals.

Many of these
light weight
alloys have
appropriately

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high strength
to warrant
their use for
structural
purposes, and
as a result of
their use, the
total weight
of
transportation
equipment has
been

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considerably
decreased.
Welding
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processes
handbook is an
introductory
guide to all
of the main
welding
processes. It
is
specifically

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designed for
students on
EWF courses
and newcomers
to welding and
is suitable as
a textbook for
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welding
courses in
accordance
with

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guidelines
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from the
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European
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Other Joining
Federation.
Technologies
Welding

processes and
equipment
necessary for
each process
are described
so that they

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can be applied
to all
instruction
levels
required by
the EWF and
the important
areas of
welded joint
design,
quality
assurance and

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costing are
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Welding provides
theoretical foundations
of the technological
processes for melting,
casting, forming, heat
treatment, and welding
of Al–Li alloys. It

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contains a critical survey of the research in the field and presents data on commercial Al–Li alloys, their phase composition, microstructure, and heat treatment of the ingots, sheets, forgings, and welds of Al–Li alloys. It details oxidation kinetics, protective alloying, hydrogen in Al–Li alloys, and crack

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susceptibility. It also discusses grain structure and solidification, as well as structural and mechanical properties. The book is illustrated with examples of Al–Li alloy applications in aircraft structures. Based on the vast experience of the coauthors, the book presents recommendations on

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solving practical
problems involved with
melting and casting
ingots, welding of Al–Li
alloys, and producing
massive stampings for
welded products.

Provides comprehensive
coverage of Al–Li
alloys, not available in
any single source.

Presents research that is
at the basis of the
production technology

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for of ingots and
products made of Al-Li
alloys. Combines basic
science with applied
research, including
upscaling and industrial
implementation. Covers
welding of Al-Li alloys
in detail. Discusses gas
and alkali-earth
impurities in Al-Li
alloys. Describes
technological
recommendations on

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casting and deformation
of Al–Li alloys.

This collection focuses
on all aspects of science
and technology related
to friction stir welding
and processing.

The evolution of
mechanical properties
and its characterization
is important to the weld
quality whose further
analysis requires
mechanical property and

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microstructure
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correlation. Present
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book addresses the basic
In Welding And
understanding of the
Friction Stir Welding
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(FSW) process that
Technologies
includes effect of
various process
parameters on the
quality of welded joints.
It discusses about
various problems related
to the welding of
dissimilar aluminium

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influence of FSW
process parameters on
the microstructure and
mechanical properties of
such alloys. As a case
study, effect of
important process
parameters on joint
quality of dissimilar
aluminium alloys is
included.

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the welding of
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After describing the
properties of wrought
and cast aluminium
alloys, their
applications, alloy
designations and
composition, both in
heat-treatable and non
heat-treatable alloys, it

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goes on to explain the process variables in weld metal transfer mechanisms, the ways of overcoming problems in GAS tungsten ARC welding, and distortion - also providing numerical methods of analysis. A thorough and timely guide to all aspects of aluminium welding.

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electrodes,
Mechanical properties
of materials,
Electrical properties
of materials
The purpose of this

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*report is to summarize
the present state of
aluminum-welding
technology. The major
topics covered are:*

*Basic metallurgy of
various heat-treatable
and non-heat-
treatable alloy
classes; welding
processes used for
joining aluminum with
emphasis on newer*

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*processes and
procedures which are
considered important
in defense metals
industries; welding
characteristics of
various alloys;
comparison of tensile
properties, cracking
tendencies, notch
toughness, and stress-
corrosion
characteristics of*

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*various weldments;
dissimilar metal
welds; and causes of
porosity and cracking
of aluminum welds
and the effect of
porosity on weld
strength. (Author).
Friction Stir Welding
of High Strength
7XXX Aluminum
Alloys is the latest
edition in the Friction*

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Stir series and summarizes the research and application of friction stir welding to high strength 7XXX series alloys, exploring the past and current developments in the field. Friction stir welding has demonstrated significant benefits in

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*terms of its potential
to reduce cost and
increase
manufacturing
efficiency of industrial
products in
transportation,
particularly the
aerospace sector. The
7XXX series
aluminum alloys are
the premium
aluminum alloys used*

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*in aerospace. These
alloys are typically
not weldable by fusion
techniques and
considerable effort
has been expended to
develop friction stir
welding parameters.
Research in this area
has shown significant
benefit in terms of
joint efficiency and
fatigue performance*

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*as a result of friction
stir welding. The book
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*coverage of friction
stir welding of 7XXX
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Discusses the physical

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*metallurgy of the
alloys Includes
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efficiency Summarizes
the research and
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stir welding to high
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*The Welding of
Aluminium and its
Alloys is a practical
user's guide to all
aspects of welding
aluminium and
aluminium alloys. It
provides a basic
understanding of the
metallurgical
principles involved
showing how alloys*

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*achieve their strength
and how the process
of welding can affect
these properties. The
book is intended to
provide engineers
with perhaps little
prior understanding of
metallurgy and only a
brief acquaintance
with the welding
processes involved
with a concise and*

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*effective reference to
the subject. It is
intended as a
practical guide for the
Welding Engineer and
covers weldability of
aluminium alloys;
process descriptions,
advantages,
limitations, proposed
weld parameters,
health and safety
issues; preparation*

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*for welding, quality
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preparation prior to
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*welding parameters
that may be used as a
starting point for the
development of a
viable welding
procedure. Included in
these chapters are
hints and tips to avoid
some of the pitfalls of
welding these
sometimes-
problematic materials.
The content is both*

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*descriptive and
qualitative. The
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expressions to
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and versatile
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allows the precision

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developments in the
modelling and
simulation of laser
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applications of laser
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serve as the first
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