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major aspects of

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(before 1940)

Willy Prager,
(May 23, 1903 in
Karlsruhe –
March 17, 1980
in Zurich) was a
German-born US
applied
mathematician.
In the field of
mechanics he is
well known for
the
Drucker–Prager

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yield criterion.

Willy Prager

studied civil

engineering at

the Technische

Universität

Darmstadt and

received his

diploma in 1925.

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extremum
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Division, Univ
of Waterloo,
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84.

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continuum
structures: A~~

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~~review . . .~~

Here $u = u(x, y)$, $v = v(x, y)$,

and subscripts

x, y denote

partial

derivatives.

Equations of

this form are

frequently found

in problems of

mechanics of

continua (cf.

the ex- amples

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in sections Of

5-7). The system
(1.1) possesses
the same
structure as the
Cauchy-Riemann
equations. $U_x =$
 V_y .

~~ON A CLASS OF
DIFFERENTIAL
EQUATIONS IN
MECHANICS OF
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In this work
Prager aimed to
provide students
with the common
fundamentals of
the various
areas of
hydrodynamics,
elasticity,
plasticity,
etc., that
constitute
continuum
mechanics. A

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great expert in

the use of
computers,

Prager published

Introduction to

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programming and

numerical

methods in 1965.

Hamming

describes the

work as

follows:-

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~~William Prager
(1903 - 1980)~~

~~Biography~~

~~MacTutor ...~~

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Drucker-Prager
yield criterion
is a pressure-
dependent model
for determining
whether a
material has
failed or
undergone

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plastic

yielding. The

criterion was

introduced to

deal with the

plastic

deformation of

soils. It and

its many

variants have

been applied to

rock, concrete,

polymers, foams,

and other pressu

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re-dependent
materials. The
Drucker–Prager
yield criterion
has the form J_2

$$= A + B I_1$$

$\{\displaystyle \sqrt{J_2}\} = A + B I_1$ where
 I_1

$\displaystyle I_1$ is the
first ...

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typical continua
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addresses the
major aspects of
continuum
studies:
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foundations,
state of stress,
instantaneous
motion,
fundamental

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laws, perfect
fluids, viscous
fluids, visco-
plastic and
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materials,
hypoelastic
materials,
finite strain,
and elastic and
hyperelastic
materials. The
text's broad

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converge and

numerous

applications

include more

than 160

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pertaining to
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understanding
and

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determination of the mechanical behaviour of engineering materials under different regimes of loading. The large subject area is separated into eighteen chapters and four appendices,

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contained, which
give a complete
picture and
allow a thorough
understanding of
the current
status and
future direction
of individual
topics. Volume I
contains eight
chapters and
three

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concerns itself
with the basic
concepts

pertaining to
the entire
monograph,

together with
the response
behaviour of

engineering
materials under
static and quasi-
static loading.

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Thus, Volume I
is dedicated to
the

introduction,
the basic
concepts and
principles of
the mechanical
response of
engineering
materials,
together with
the relevant
analysis of

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lastic, elastic-
plastic, and
viscoelastic
behaviour.

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consists of ten
chapters and one
appendix, and
concerns itself
with the
mechanical
behaviour of
various classes
of materials

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under dynamic
loading,
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the effects of
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phenomena on the
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material. Volume
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selected topics
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as for the
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and engineers
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processing and

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materials, as
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other
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who are involved
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design process.

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presents an
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into the entire
science of
Continuum

Mechanics in
three parts. The
presentation is
modern and
comprehensive.
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into tensors is
very gentle. The
book contains
many examples
and exercises,

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and is intended
for scientists,
practitioners
and students of
mechanics.

After the IUTAM
Symposium on
Optimization in
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Design held in
Warsaw in 1973,
it was clear to
me that the time

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had come for
organizing into
a consistent
body of thought
the enormous
quantity of
results obtained
in this domain,
studied from so
many different
points of view,
with so many
different
methods, and at

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so many levels
of practical
applicability.

My colleague and
friend

Gianantonio

Sacchi from

Milan and I met

with Professor

Prager in

Savognin in July

1974, where I

submitted to

them my first

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ideas for a

treatise on

structural

optimization: It

should cover the

whole domain

from basic

theory to

practical

applications,

and deal with

various

materials,

various types of

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structures, Of

various
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functions

required of the
structures, and
various types of
cost . . .

Obviously, this
was to be a team
effort, to total
three or four
volumes, to be
written in a
balanced manner

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as textbooks and handbooks.

Nothing similar existed at that time, and, indeed, nothing has been published to date. Professor Prager was immediately in favor of such a project. He agreed to write

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optimality

criteria with me
and to help me
in the general
organization of
the series.

Since Professor
Sacchi was
willing to write
the text on
variational
methods, it
remained to find

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authors for

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generally, on

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methods) and on

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optimal design

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Mechanics

This book begins
with the
fundamentals of
the mathematical
theory of
plasticity. The
discussion then

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turns to the
theory of
plastic stress
and its
applications to
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analysis. It
concludes with a
wide range of
topics in
dynamic
plasticity
including wave
propagation,

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armor
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penetration, and
structural

impact in the
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rapidly growing
interest in
computational

methods, an
appendix

presents the
fundamentals of
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analysis of
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problems.

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Plasticity
Theory is to
provide a
comprehensive
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the contemporary
state of
knowledge in
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treats several

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commonly found

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covers of a

single book: the

physics of

plasticity,

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theory, dynamic

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methods, in
addition to a
representative
survey of
problems treated
by classical
methods, such as
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problems, plane
plastic flow,
and limit

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analysis; the
problem
discussed come
from areas of
interest to
mechanical,
structural, and
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engineers,
metallurgists
and others. The
necessary
mathematics and
basic mechanics

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thermodynamics

are covered in an introductory chapter, making the book a self-contained text suitable for advanced undergraduates and graduate students, as well as a reference for

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Practitioners of
solid mechanics.

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modelling is the
mathematical
description of
how materials
respond to
various
loadings. This
is the most
intensely
researched field

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within solid
mechanics

because of its
complexity and
the importance
of accurate
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models for
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covered include:
Elasticity -
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discussion of

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provides an
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mechanics.

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bestselling
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the methods and
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nonlinear finite
element
analysis. New
material
provides a

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introduction to
some of the

cutting-edge
methods that

have evolved in
recent years in

the field of

nonlinear finite
element

modeling, and

includes the

eXtended finite
element method

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(XFEM),

multiresolution
continuum theory
for multiscale
microstructures,
and dislocation-
density-based
crystalline
plasticity.

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Elements for
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focuses on the formulation and solution of discrete equations for various classes of problems that are of principal interest in applications to solid and structural mechanics.

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include the discretization by finite elements of continua in one dimension and in multi-dimensions; the formulation of constitutive equations for nonlinear materials and large

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the solution of
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equations,
including
considerations
of both
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instabilities;
and the
treatment of

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