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W is isotropic
iff $W(F) =$
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where Φ is
symmetric with

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respect to
permutations of
the v_i . Proof.
Suppose W is
isotropic. Then
 $F = RDQ$ for $R, Q \in SO$
(3) and $D = \text{diag}(v_1,$
 $v_2, v_3)$. Hence W
 $= W(D)$. But for
any permutation
 P of $1, 2, 3$ there
exists Q^{\sim} such
that $Q^{\sim} \text{diag}(v_1, v$
 $2, v_3) Q^{\sim T} = \text{diag}(v$

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$(P1, vP2, vP3)$. The
converse holds
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$$= \lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h} = \lim_{h \rightarrow 0} \frac{\Delta f}{\Delta x}$$

$\approx \frac{\Delta f}{\Delta x}$ or

equivalently =

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(percentage)
change in the
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Figure 1.1.1:

Let $\psi: BR \rightarrow R^3$
be a sufficiently
regular mapping.
It is said to be
a deformation if
(1.1-2) $\det(\nabla\psi)$
> 0 where $\nabla\psi$ is

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called the
deformation
gradient and is
a matrix given
by $\nabla \psi = \frac{\partial \psi_1}{\partial X_1} \frac{\partial X_1}{\partial X} + \frac{\partial \psi_1}{\partial X_2} \frac{\partial X_2}{\partial X} + \frac{\partial \psi_2}{\partial X_1} \frac{\partial X_1}{\partial X} + \frac{\partial \psi_2}{\partial X_2} \frac{\partial X_2}{\partial X} + \frac{\partial \psi_3}{\partial X_1} \frac{\partial X_1}{\partial X} + \frac{\partial \psi_3}{\partial X_2} \frac{\partial X_2}{\partial X} + \frac{\partial \psi_3}{\partial X_3} \frac{\partial X_3}{\partial X}$

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first to extend

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