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W is isotropic

$i? W(F) =$

$? (v_1, v_2, v_3),$

where $? is$

symmetric with

respect to

permutations of

the v_i . Proof.

Suppose $W is$

isotropic. Then

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$F = RDQ$ 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 \tilde{Q} such that $\tilde{Q} \text{diag}(v_1, v_2, v_3) \tilde{Q}^T = \text{diag}(v_{P1}, v_{P2}, v_{P3})$. The converse holds since $Q^T F^T F Q$ has the

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or point
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positive
differentiable
function f of a
positive
variable
(positive input,

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positive output)

at point a is
defined as $= ?$

$() = ? ? ? = ? ?$

$() ? = ? ? () ?$

$? \% \%$ or

equivalently $= ?$

?. It is thus the

ratio of the

relative

(percentage)

change in the

function's

output $()$ with

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be a sufficiently

regular mapping.

It is said to be

a deformation if

(1.1-2) $\det(\mathbf{F})$

> 0 where \mathbf{F} is

called the

deformation

gradient and is

a matrix given

by $\mathbf{F} = \mathbf{F}(\mathbf{X})$

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