Eqs. (
$$7$$
) to (12) simplify to:

(1d) simplify to:

$$\omega_{02} = -\omega_{01} = \frac{\kappa}{2} \sqrt[3]{0}, \qquad (15)$$

$$\omega_{03} = -\omega_{01} = \frac{\kappa}{2} \sqrt[3]{0}, \qquad (16)$$

$$\omega_{03} = -\omega_{02} = \frac{\kappa}{2} \sqrt[3]{0}. \qquad (17)$$

So for electro-statics there is only one independent spin connection element.

The scalar potential ϕ must be the same scalar in all frames of reference. It follows that:

$$\phi_{0} = \phi_{0} = \phi_{$$

The product of
$$\omega$$
 band ϕ must be $(i = 1, 2, 3)$:
$$\omega^{a}_{ib} \phi^{b} = \omega^{a}_{ii} \phi^{i} + \omega^{a}_{i2} \phi^{2} + \omega^{a}_{i3} \phi^{3}$$

$$= \phi^{(a)} (\omega^{a}_{i1} + \omega^{a}_{i2} + \omega^{a}_{i3}) - (19)$$

From Eq. ((O) it is seen that:

$$a = 1, 2, 3.$$
 $-(20)$

Thus:

$$\underline{E}' = -\underline{\nabla}\phi - \underline{\kappa}\phi, \quad -(21)$$

$$\underline{E}_1 := \underline{E}_1, \quad -(21a)$$