

$$\begin{aligned}\dot{z} \underline{z} E &= \dot{z} \underline{z} E \underline{z} E = \overline{\dot{z} \underline{z} E} \underline{z} E + \underline{z} E \overline{\dot{z} \underline{z} E} \\ \dot{z} \underline{z} E &= \overline{\dot{z} \underline{z} E} \\ \underline{z} \underline{\rho} \underline{\kappa} \underline{\Phi} &= \underline{z} E \underline{z} \underline{\rho} \underline{\kappa} \underline{\Phi}\end{aligned}$$

$$\underline{z} \underline{d} = \underline{z} E: \quad \underline{\vdash} \underline{z} \underline{d} = \underline{\vdash} \underline{z} E: \quad \overline{\underline{\vdash} \underline{z} \underline{d} \varphi} = \overline{\underline{\vdash} \underline{z} E \varphi}$$

$$\begin{aligned}\dot{z} \underline{z} \underline{\Phi} &= \dot{z} \underline{z} E \underline{z} \underline{\Phi} = \overline{\dot{z} \underline{z} E} \underline{z} \underline{\Phi} + \underline{z} E \overline{\dot{z} \underline{z} \underline{\Phi}} \\ \underline{z} \underline{\rho} \underline{\kappa} \underline{\Phi} &= \underline{z} E \underline{\rho} \underline{z} \underline{\Phi} = \underline{\rho} \underline{z} \underline{\Phi} - \underline{\rho} \underline{z} \underline{E} \underline{z} \underline{\Phi}\end{aligned}$$

$$\overline{\dot{z} \underline{z} E} \underline{z} E = H_{\underline{z} \underline{z} E} \text{ Hankel}$$

$$\underline{z} E \overline{\dot{z} \underline{z} E} \underline{z} E = 0$$

$$\underline{z} \underline{\mathfrak{b}} \underline{\kappa} \underline{\Phi} = \underline{z} E \underline{z} \underline{\mathfrak{b}} \underline{\kappa} \underline{\Phi} = \int_{dn}^M \underline{z} E_n \underline{z} \underline{\mathfrak{b}} \underline{\kappa} \underline{\Phi}^n$$

$$\underline{z} \underline{\omega} \underline{n} = \underline{z} E_n: \quad \underline{\vdash} | \underline{z} \underline{\omega} = \underline{\vdash} \underline{z} E: \quad \underline{\mathfrak{b}} | \underline{z} \underline{\omega} \varphi = \int_{dn}^M \underline{\mathfrak{b}} \underline{z} E_n \underline{n} \varphi$$

$$\dot{z} \underline{z} \underline{\Phi}^m = \int_{dn}^M \dot{z} \underline{z} E_n \underline{z} \underline{\Phi}^n = \int_{dn}^M \overline{\dot{z} \underline{z} E_n} \underline{z} \underline{\Phi}^n + \underline{z} E_n \overline{\dot{z} \underline{z} \underline{\Phi}^n} = \int_{dn}^M \overline{\dot{z} \underline{z} E_n} \underline{z} \underline{\Phi}^n + \int_{dn}^M \underline{z} E_n \overline{\dot{z} \underline{z} \underline{\Phi}^n}$$

$$\underline{z} \underline{\mathfrak{b}} \underline{\kappa} \underline{\Phi}^m = \underline{z} E \underline{z} \underline{\mathfrak{b}} \underline{\kappa} \underline{\Phi}^m = \int_{dn}^M \underline{z} E_n \underline{z} \underline{\mathfrak{b}} \underline{\kappa} \underline{\Phi}^n = \underline{\mathfrak{b}} \underline{z} \underline{\Phi}^m - \int_{dn}^M \underline{\mathfrak{b}} \underline{z} E_n \underline{z} \underline{\Phi}^n$$