NPDSLDA

$$\frac{dc_{Vm}I}{dc_{Vm}I} = \frac{dc_{Vm}I}{k_{j} = 1} \left[L_{j} z \left(\frac{Z}{N_{i}v} \right) - \frac{Z}{v-1} L_{j} z \left(\frac{V}{N_{i}v} \right) + \frac{Z}{V} \left(\frac{V}{V_{i}v} \right) - \frac{Y}{V_{i}v} \frac{Z}{N_{i}v} \right) \right]$$

$$\frac{dc_{Vm}I}{k_{j} = 1} \left[L_{ij} z \left(\frac{Z}{N_{i}v} \right) - \frac{Z}{N_{i}v} L_{ij} z \left(\frac{Z}{N_{i}v} \right) + \frac{Z}{N_{i}v} \left(\frac{V}{V_{i}v} \right) + \frac{Z}{V_{i}v} \left(\frac{V}{V_{i}v} \right) - \frac{V}{V} \left(\frac{Z}{N_{i}v} \right) \right) \right]$$

$$\frac{dc_{Vm}I}{N_{i}} = \frac{Z}{N_{i}v} \left[L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{V}{V_{i}v} \right) - L_{ij} z \left(\frac{V}{V_{i}v} \right) + \left(\frac{V}{V_{i}v} \right) + \left(\frac{V}{V_{i}v} \right) - \frac{V}{V} \left(\frac{V}{N_{i}v} \right) \right) \right]$$

$$\frac{dc_{Vm}I}{N_{i}} = \frac{Z}{N_{i}v} \left[L_{ij} z \left(\frac{X_{i}v}{N_{i}} + \frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) - \frac{V}{V} \left(\frac{V}{N_{i}v} \right) + \left(\frac{V}{V_{i}v} \right) - \frac{V}{V} \left(\frac{V}{N_{i}v} \right) \right) \right]$$

$$\frac{dc_{Vm}I}{N_{i}} = \frac{Z}{N_{i}v} \left[L_{ij} z \left(\frac{X_{i}v}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) + \frac{V}{N_{i}v} \left(\frac{V}{V} \left(\frac{V}{N_{i}v} \right) - \frac{V}{V} \left(\frac{V}{N_{i}v} \right) \right) \right]$$

$$\frac{dc_{Vm}I}{N_{i}} = \frac{Z}{N_{i}v} \left[L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) + \frac{V}{N_{i}v} \left(\frac{V}{V} \left(\frac{V}{N_{i}v} \right) - \frac{V}{V} \left(\frac{V}{N_{i}v} \right) \right) \right]$$

$$\frac{dc_{Vm}I}{N_{i}} = \frac{Z}{N_{i}v} \left[L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) \right]$$

$$\frac{dc_{Vm}I}{N_{i}} = \frac{Z}{N_{i}v} \left[L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) \right]$$

$$\frac{dc_{Vm}I}{N_{i}} = \frac{Z}{N_{i}v} \left[L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) \right]$$

$$\frac{dc_{Vm}I}{N_{i}} = \frac{Z}{N_{i}v} \left[L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) \right]$$

$$\frac{dc_{Vm}I}{N_{i}} = \frac{Z}{N_{i}v} \left[L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) \right]$$

$$\frac{dc_{Vm}I}{N_{i}} = \frac{Z}{N_{i}v} \left[L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) \right]$$

$$\frac{dc_{Vm}I}{N_{i}} = \frac{Z}{N_{i}v} \left[L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) - L_{ij} z \left(\frac{Z}{N_{i}v} \right) \right]$$

$$\frac{dc_{Vm}I}{N_{i}$$

$$\frac{t_{Vm}\delta'}{\sum_{k_{p}=1}^{2}} \frac{k_{p}}{\log \tau} \left(\sum_{k_{p}=1}^{2} k_{p} \right) - \sum_{k_{p}=1}^{2} \log \tau \left(k_{k_{p}} \right) + \sum_{k_{p}=1}^{2} \left(k_{k_{p}} \right) - \psi \left(\sum_{k_{p}=1}^{2} k_{k_{p}} \right) \right)$$

$$\frac{t_{Vm}g'}{\sum_{k_{p}=1}^{2}} \frac{k_{p}}{k_{p}} \left[\log_{\tau} \left(k_{k_{p}} \right) - \log_{\tau} \left(k_{k_{p}} \right) - \log_{\tau} \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) \right]$$

$$+ \left(k_{k_{p}-1} \right) \left(\psi \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) + \log_{\tau} \left(k_{k_{p}} \right) \right) + \left(k_{k_{p}-1} \right) \left(\psi \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) \right) \right]$$

$$+ \left(k_{k_{p}-1} \right) \left(\psi \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) + \log_{\tau} \left(k_{k_{p}} \right) \right) + \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) \right) + \left(k_{k_{p}} \right) \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) \right) \right]$$

$$+ \left(k_{k_{p}-1} \right) \left(\psi \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) \right) + \left(k_{k_{p}} \right) + \left(k_{k_{p}} \right) \right) \left(\psi \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) \right) \right) \right]$$

$$+ \left(k_{k_{p}-1} \right) \left(\psi \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) \right) + \sum_{k_{p}-1} \left(k_{k_{p}} \right) \left(\psi \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) \right) \right) \right) \right)$$

$$+ \left(k_{k_{p}-1} \right) \left(\psi \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) \right) \left(k_{k_{p}} \right) \right) \left(\psi \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) \right) \right) \left(\psi \left(k_{k_{p}} \right) \right) \right) \left(\psi \left(k_{k_{p}} \right) - \psi \left(k_{k_{p}} \right) \right) \right) \left(k_{k_{p}} \right) \right) \left(k_{k_{p}} \right) \left(k_{k_{p}} \right) \left(k_{k_{p}} \right) \right) \left(k_{k_{p}} \right) \left(k_{k_{p}} \right) \right) \left(k_{k_{p}} \right) \left(k_{k_{p}} \right) \left(k_{k_{p}} \right) \right) \left(k_{k_{p}} \right) \left(k_{k_{p}} \right) \left(k_{k_{p}} \right) \left(k_{k_{p}} \right) \right) \left(k_{k_{p}} \right$$