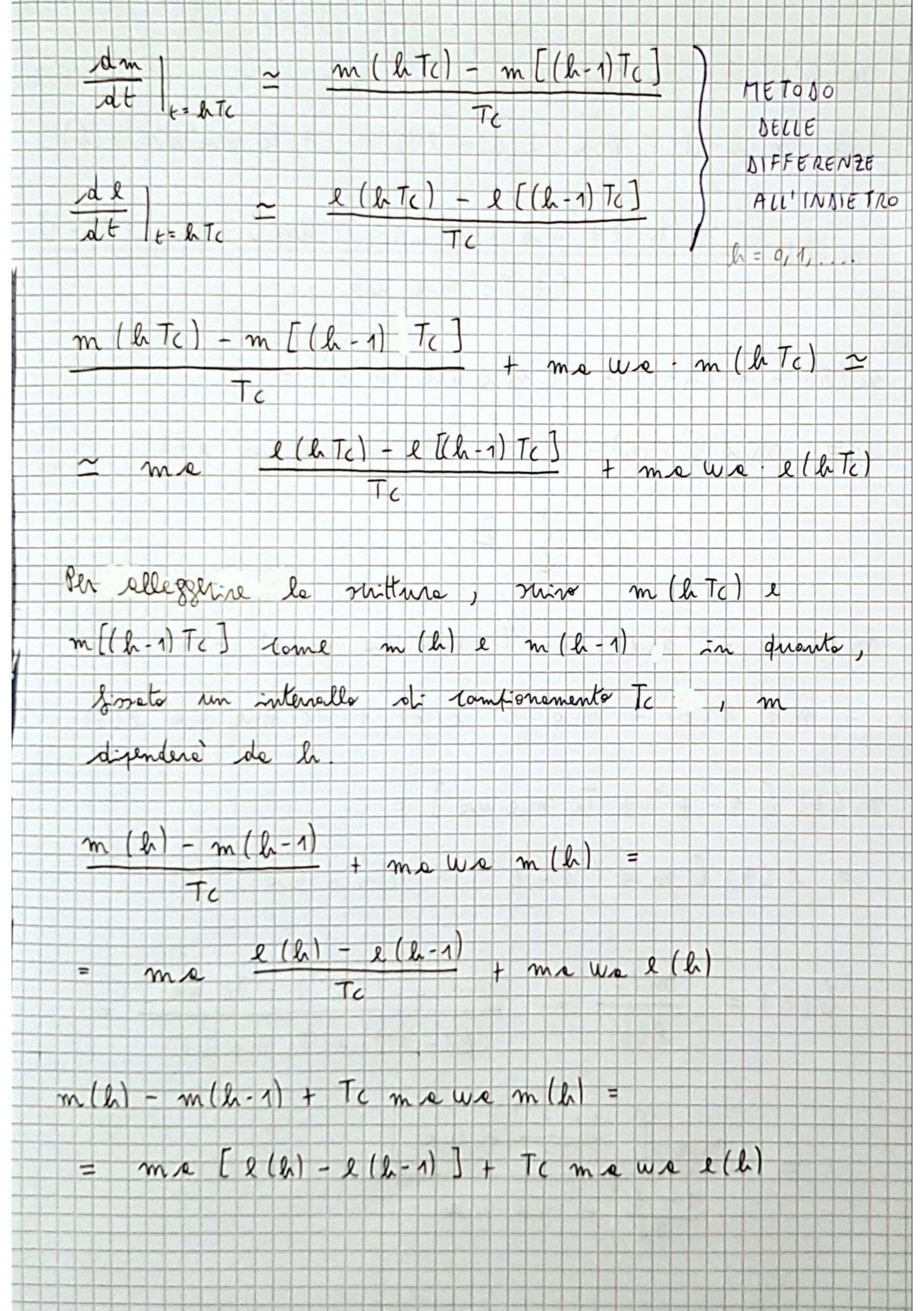


Considerana 6(5) = 1+ we
1+ mewe
$G(S) = \frac{1+\frac{S}{we}}{1+\frac{S}{mewe}} = \frac{we me (1+\frac{S}{we})}{we me (1+\frac{S}{mewe})}$
$= \frac{wama + mas}{wama + s} = \frac{ma(s+wa)}{s+wama}$
$\frac{m(s)}{e(s)} = 6(s) = \frac{me(s+we)}{s+mewe}$
$m(s) = \frac{me(s+we)}{s+mewe} e(s)$
(s+mewe) m(s) = me (s+we) l(s)
$S m(s) + me we m(s) = me - S \cdot l(s) + me we l(s)$
dm dt + me wa m(t) = me de(t) dt + me wa e(t)



m(h) [1+ Tc me we] = m (h-1) + me [e(h) - e(h-1)] + Tc me we e(h) m(h-1) + me l(h) [1+ Tc we] - me l(h-1) 1 + Tc me we m(h) - m(h-1) + Tc me we m(h) me [e(h)-e(h-1)] + Tc me we e(h) 1 m (7) + Tc ma we m (7) - me 2-1 e(2) + Tc me we e(2) m(2) L1-2-1+ Tcmewe) 2 (2) [me (1-2-1) + Tcme we me [(1-2-1) + Tc we m (z) 6(2) (1-7-1) + To me we me wa TC

$$G(z) = \frac{me \left[\frac{1-z^{-1}}{Tc} + we\right]}{\frac{1-z^{-1}}{Tc} + me we}$$

$$G(s) = \frac{me (s+we)}{s+me we}$$