



Systems of Ordinary Differential Equations > Nonlinear Systems of Three and More Equations

**11.  $x''_{tt} = cF_2 - bF_3$ ,  $y''_{tt} = aF_3 - cF_1$ ,  $z''_{tt} = bF_1 - aF_2$ , where  $F_n = F_n(x, y, z, t, x'_t, y'_t, z'_t)$ .** ■

Integral:

$$ax + by + cz = C_1t + C_2,$$

where  $C_1$  and  $C_2$  are arbitrary constants.