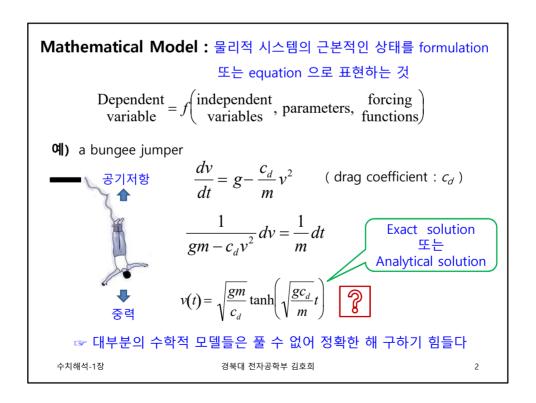
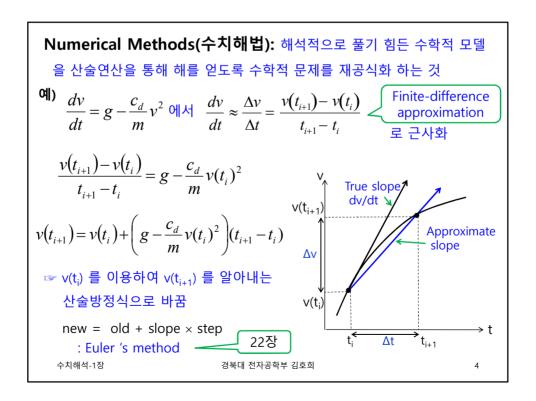
Mathematical Modeling, Numerical Methods, and Problem Solving

HoHee Kim

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$$v(t_{i+1}) = v(t_i) + \left(g - \frac{c_d}{m}v(t_i)^2\right)(t_{i+1} - t_i)$$
 ($t_0 = 0$, $v_0 = 0$ 를 이용) $t = 2$: $v = 0 + \left[9.81 - \frac{0.25}{68.1}(0)^2\right] \times 2 = 19.62$ $t = 4$: $v = 19.62 + \left[9.81 - \frac{0.25}{68.1}(19.62)^2\right] \times 2 = 36.4137$ $t_0 = 0$ $t_0 =$

