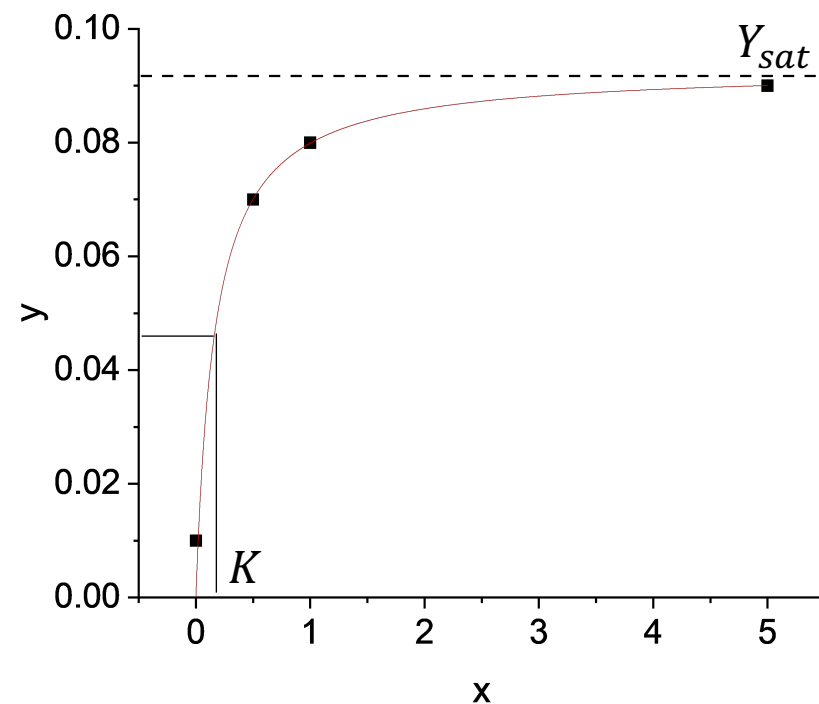
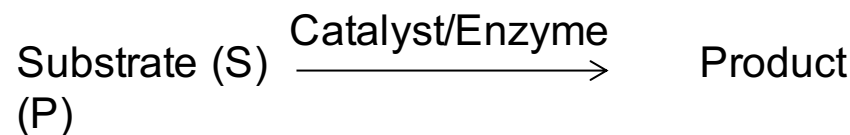
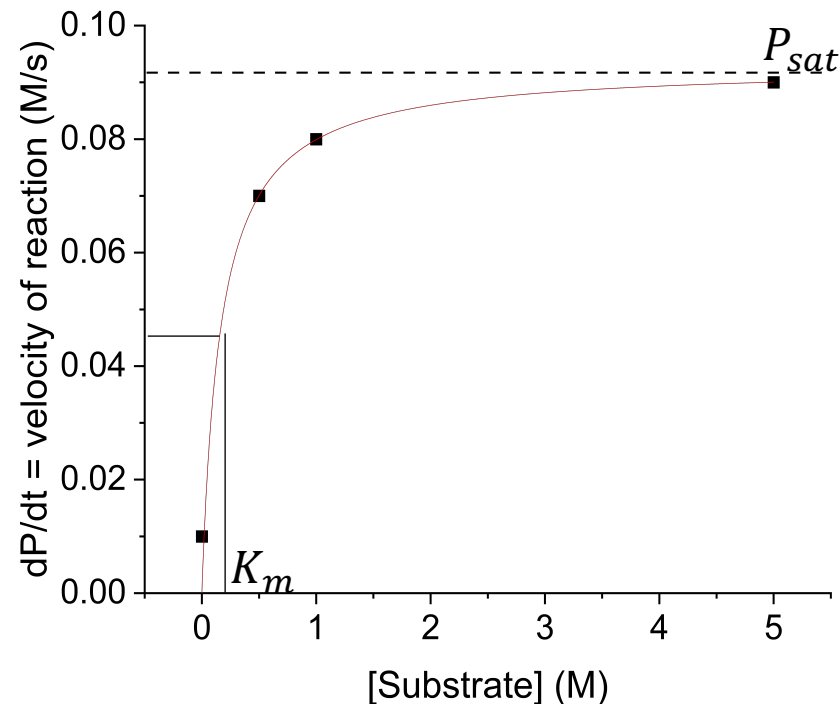


General 2<sup>nd</sup> order differential equation

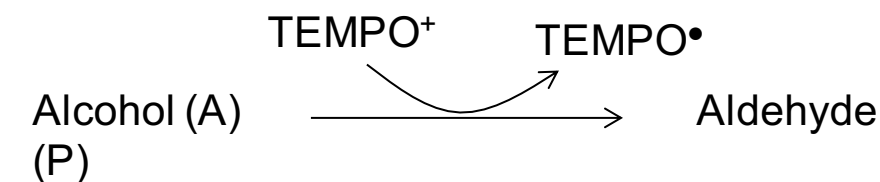
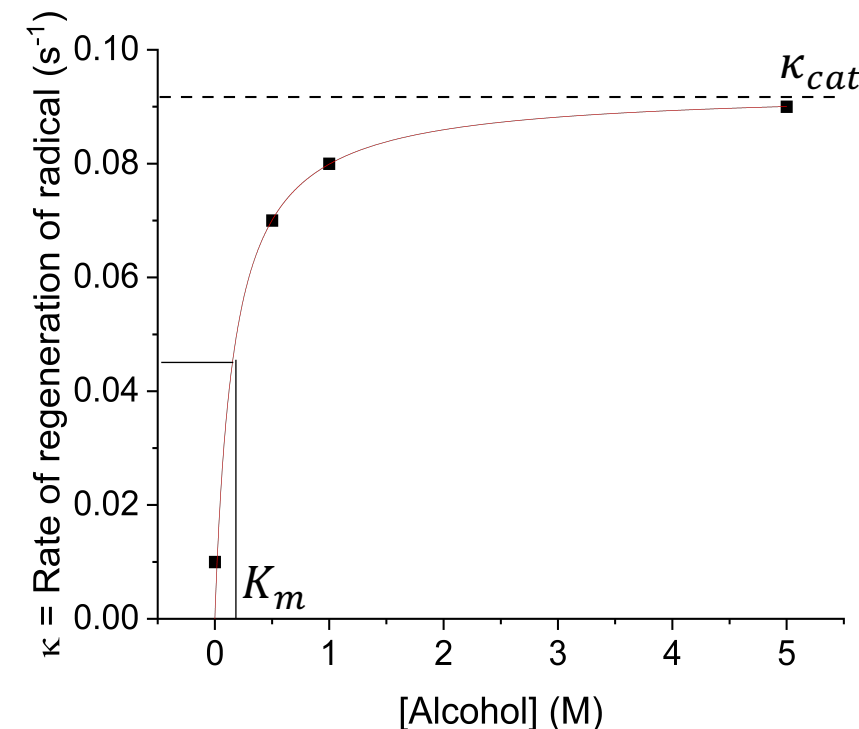
Michaelis-Menten kinetics



$$v = \frac{P_{sat} \cdot S}{K_m + S}$$

$P_{sat}$  : limiting rate of enzyme catalysis when saturated with A.

FE-EPR (this paper)



$$\kappa = \frac{\kappa_{cat} \cdot A}{K_m + A}$$

$\kappa_{cat}$  : catalytic rate

Solutions:

$$y = \frac{Y_{sat} \cdot x}{K + x}$$

$Y_{sat}$  : asymptotic value of y when increasing x.