

Homework 06

Assigned on 2020-10-31

Due on 2020-11-13

1. (Rate equation) This is a continuation from the last homework.
 - (a) Explain Equation 5.35 of the book.
 - (b) Explain Equation 5.42 of the book.
 - (c) Explain Equation 5.43 of the book.
 - (d) Explain Equation 5.44 of the book.
 - (e) Explain Equation 5.45 of the book.
2. (Using the rate equation for Model A) Follow the steps outlined by Equations 5.31, 5.32, 5.33, 5.34, 5.35, 5.42, 5.43, 5.44, 5.45 and:
 - (a) Obtain a differential equation for the degree distribution in Model A (Growth without preferential attachment).
 - (b) Obtain a formula for this degree distribution by solving the equation you got in the previous item.
 - (c) Does your formula in the previous item agree with the solution given in the book?