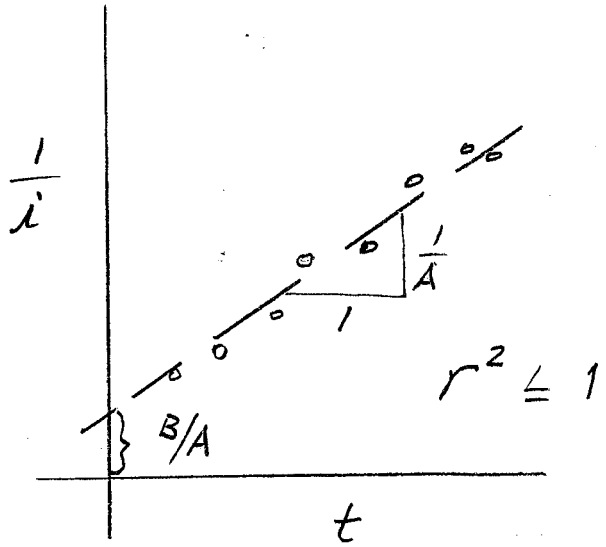
Linear Regression Analysis for IDF-relation

$$i = \frac{A}{t + B} \quad \text{(Eq. 2.15, Gupta, 2017)}$$

Considering Equation 2.15 (Gupta, 2017), which applies to a specific "return period in years, the following is an approach:

$$\frac{1}{i} = \frac{t + B}{A} \quad \therefore \quad \frac{1}{i} = \frac{1}{A} t + \frac{B}{A}$$

t	i
–	–
–	–
–	–
}	}



where r^2 = coefficient (or index) of determination

r = correlation coefficient