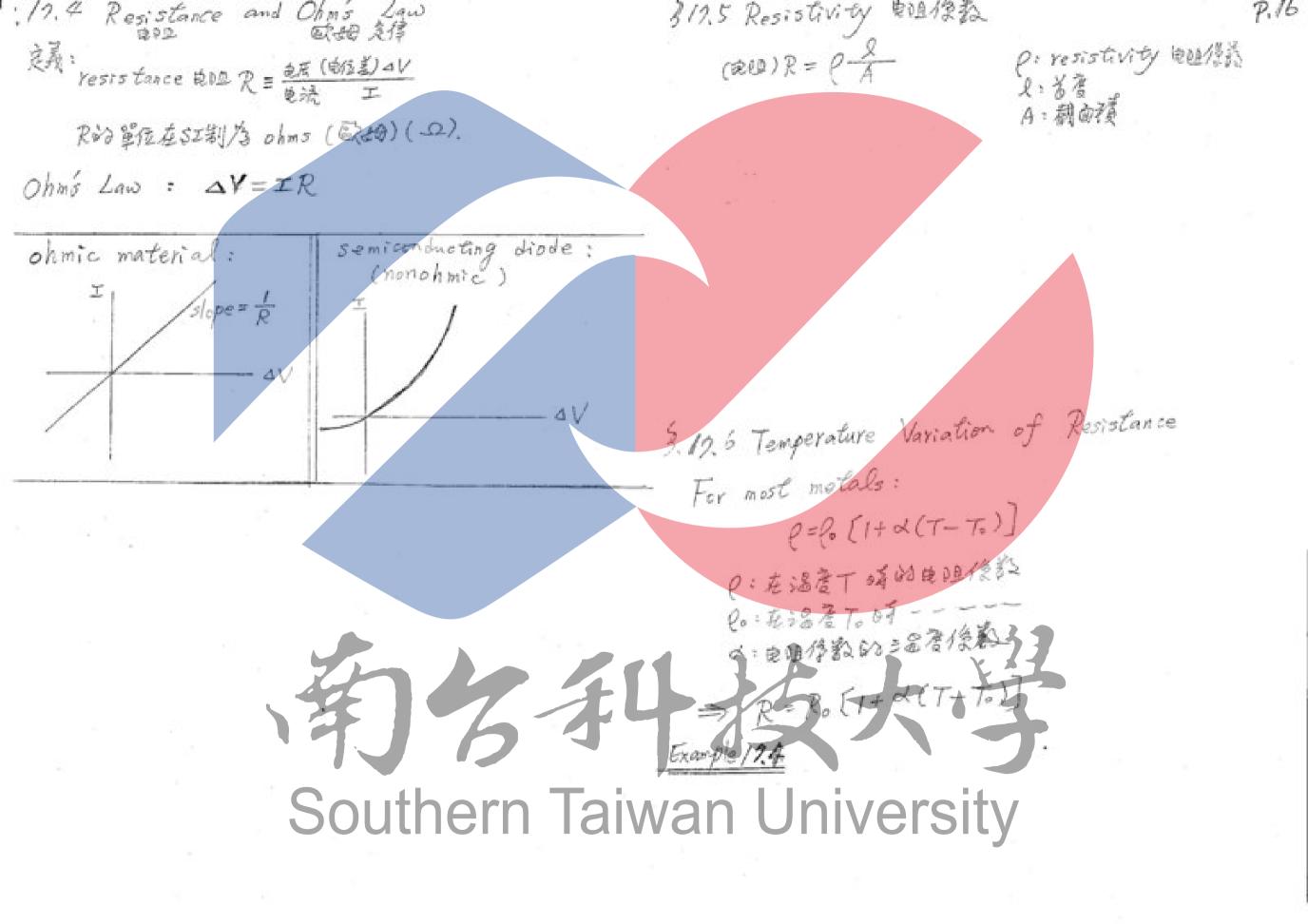
P.15 △Q = (nA và △t) 7 chapter 17 Current and Resistance Vo : the drift speed 3.17.1 Electric Current The current is the rate at which charge flows I = 28 = ng Và A through this surface. If as is the amount of charge that passes through this area in a time Interval of st, the current I is equal to the Example 12.2 vatio of the charge to the time interval : $I = \frac{\Delta R}{\Delta T}$ The SI unit of current is the ampere (A): 1A=1 % Example 12 1 3.17.3 Current and Voltage Measurements in Gravits Fig 10,5 (6) 1/2, 2 A microscopic View: Current and Drift Speed AQ = number of carriers × K-axcharge per carrier n o-> Vy = (RAAX) & ドリッムセン outhern Taiwan University carriers per unit volume. Asx: the volume element.



17.7 Superconductors \$ \$ \$ \$ \$ There is a class of metals and compounds whose resistances fall virtually to zero below a certain temperature To called the critical temperature. These materials are known as superconductors.

Fig. 12.8

1.17. 8 Electrical Energy and Power $23 = I \Delta V = I^{*}R = \frac{(\Delta V)^{*}}{R}$

xample 17. 5

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