## 第二章司殿。

1. 沒gay)为衣喽巷(到覆fay) 함唱声(到鬼ga,y) 言译管证(到像. 到 gay) = fay) + yay),即 M f 国像机局证证证为 ga,y) =  $\frac{1}{1}$   $\frac{1}{1$ 

 $\begin{cases} E\{\overline{g}(x,y)\} = f(x,y) & \text{ if } F(\overline{g}(x,y)) = f(x,y) \\ \sigma_{\overline{g}(x,y)}^2 = \overline{h} \sigma_{\overline{g}}^2 \\ \sigma_{\overline{g}(x,y)}^2 = \overline{h} \sigma_{\overline{g}}^2 \end{cases}$ 

部份。學養了如少可以知為確如且配如美物变量。即可以看不足符音為斯等有心學者 月(以少) ~ N L M; 成2). 且此时 M = 0.
到足 E { 月(以少) = 0.

(1)  $\bar{\mathcal{J}}(x,y) = \frac{1}{M} \sum_{i=1}^{M} \hat{\mathcal{J}}_{i}(x,y) = \frac{1}{M} \sum_{i=1}^{M} \left\{ \hat{\mathcal{J}}_{i}(x,y) + \hat{\mathcal{J}}_{i}(x,y) \right\}$ 

四. 由的知识于不够意图了出的有 E(气识的)= faya 阳由流流有。

 $f_{\text{slowy}}^2 = E\left\{\left[f_{\text{slowy}}^2 - \mu\right]\right\} = E\left\{\left[f_{\text{slowy}}^2 - f_{\text{only}}^2\right]\right\}.$ 

 $\int_{S} (x,y) = \int (x,y) \cdot S = 1 \cdot 2 \cdot - - \cdot M \cdot \cdot \cdot \cdot \int_{f(x,y)}^{z} = E \left\{ \left[ \int_{S} (x,y) - f(x,y) \right] \right\} = 0.$ 

こつますであり変配重量和が養な大治、Var(ax+bY)= a² Var(x)+b² Var(Y)+ 2ab Cov(x,Y)、

显绝积分  $f(\alpha, y)$  支  $f(\alpha, y)$  是触点不翻著的、 起  $f(\alpha, y)$  = 0.

 $\sqrt[2]{g}(x,y) = \sqrt[3]{g}(x,y) = \sqrt[3]{g}(x,y) + \sqrt[3]{g}(x,y) + \sqrt[3]{g}(x,y) = \sqrt[3]{g}(x,y) + \sqrt[3]{g}(x,y) = \sqrt[3]{g}(x,y) + \sqrt[3]$ 

 $(\widehat{g}_{\alpha,y}) = \frac{1}{M^2} \text{ Var } (\widehat{y}_{2}, y_{2}, \alpha, y_{3}) = \frac{1}{M^2} \underbrace{\mathbb{Z}}_{2,\widehat{j}=1}^{M} \text{ Cov} \{ y_{2}, \alpha, y_{3}, y_{3}, \alpha, y_{3} \} = \frac{1}{M_2} \underbrace{\mathbb{Z}}_{2=1}^{M} \text{ Var } (y_{2}, \alpha, y_{3}) + \underbrace{\mathbb{Z}}_{2} \text{ Cov} \{ y_{2}, \alpha, y_{3}, y_{3}, \beta, \alpha, y_{3} \}$ 

"·" 多、(小y)为局部量素、各种的生型对的类、侧有 至 Cov(ngay)、ng (any))=0

 $\frac{1}{2} (x,y) = \frac{1}{M^2} \sum_{i=1}^{M} Var(y_i(x,y)) = \frac{1}{M^2} \sum_{i=1}^{M} C_n^2 = \frac{1}{M^2} \cdot M C_n^2 = \frac{1}{M} c_n^2.$ 

论红镜说的: 多幅过滤某些时候、 Muso掌柜如时吸声!