2.1 0 0 故X+的一维概率高度为 ft(x) = 元田 e-祭 . x∈R 均值叫数 m(t) = EX(t) = b. 超关型数 R(t,, t,) = EX(t,)X(t,) = E(Vt,+b)(Vt,+b) = t,t,+b 2.3. 石更中出现 正, 反面的概率均为七. (1) 当  $t = \{id, x(t) \text{ 的分布引为 } P(x(t) = 0) = P(x(t) = 1) = \{id, x(t) \text{ 的分布引为 } P(x(t) = 0) = P(x(t) = 1) = \{id, x(t) \text{ 分布引为 } P(x(t) = -1) = P(x(t) = 2) = \{id, x(t) \text{ 分布引为 } P(x(t) = -1) = P(x(t) = 2) = \{id, x(t) \text{ of } x \in I\}$ (2) 在 t=1, t=1的 联合分布列为  $P(X(\frac{1}{2})=0, X(1)=-1) = P(X(\frac{1}{2})=0, X(1)=2) = \frac{1}{4}$ 故二维联合分布函数  $(0, x_1 < 0 \stackrel{\cdot}{\wedge} x_2 < -1)$   $+ (\frac{1}{2}, \frac{1}{2}, x_1, x_2) = (\frac{1}{2}, \frac{1}{2}) = (\frac{1}{2}, \frac{1}) = (\frac{1}{2}, \frac{1}{2}) = (\frac{1}{2}, \frac{1}{2}) = (\frac{1}{2}, \frac{1}{2}$ (3)  $M_{X}(t) = \cos(zt) \cdot \frac{1}{2} + 2t \cdot \frac{1}{2} = \frac{1}{2}(\cos(zt) + 2t), \quad m_{X}(1) = \frac{1}{2}.$   $6 \cdot \frac{7}{2}(t) = \left[ x^{2}(t) = \left[ m_{X}(t) \right]^{2} = \left[ \frac{1}{2}\cos(zt) - t \right]^{2}.$ 2. |2|  $E_{X}(t) = E_{X} A_{X} e^{i(wt+\phi_{X})} = \sum_{K=1}^{N} E_{A_{K}} \cdot E_{X} e^{i(wt+\phi_{X})}$ 立中~U(0,22),故臣eilwt+qx)= si eilwt+q) = 12 dy=0 P  $EX(t) = \sum_{k=1}^{N} EA_{k} \cdot 0 = 0$ .  $B_{x}(t_{1},t_{2}) = E_{x}(t_{1}) \overline{x(t_{2})} = \sum_{k=1}^{N} \sum_{j=1}^{N} E_{k} A_{j} \cdot E_{j} e^{i \Gamma_{w}(t_{1},t_{2})}$  $\frac{1}{100} \frac{1}{100} \frac{1}$ 

$R_{x}(t_{1},t_{2}) = E(Y\cos(\vartheta t_{1}) + E\sin(\vartheta t_{1}))(Y\cos(\vartheta t_{2}) + Y\sin(\vartheta t_{2}))$
$= \omega_{S} \otimes (t_{1} - t_{1}).$
$EX^{2}(t) = R_{x}(t,t) = 1 < \infty$
邓 (x(+),-o(t <n)为广义平约过程,不至严平约过程,< th=""></n)为广义平约过程,不至严平约过程,<>
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