국방정보공학과 | 학년 2020032306 송민경 일반물리학2 \* 과제# II

- Q13. 전류의 크기를 i, 전류 고임의 면전 벡터를 A라고 할 때, 자기 모멘트 벡터 시는 시=iA 이다. 이 때, 전류 i의 방향으로 오른쪽 순가락들로 고리를 장으면 쪽 뻗은 당시의 방향이 자의 방향이다.
  - (a) All Skkztöd ztztel zhledetz  $\vec{M}_{bofgb} = (i\alpha^2)\hat{j}, \quad \vec{M}_{abgha} = -(i\alpha^2)\hat{i}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i} \text{ olef}$ etal zhletz  $\vec{M}_{bofgb} = (i\alpha^2)\hat{j}, \quad \vec{M}_{abgha} = -(i\alpha^2)\hat{i}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i} \text{ olef}$   $\vec{M}_{bofgb} = (i\alpha^2)\hat{j}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i} \text{ olef}$   $\vec{M}_{bofgb} = (i\alpha^2)\hat{j}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{j}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{j} \text{ olef}$   $\vec{M}_{bofgb} = (i\alpha^2)\hat{j}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{j}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i} \text{ olef}$   $\vec{M}_{bofgb} = (i\alpha^2)\hat{j}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i} \text{ olef}$   $\vec{M}_{bofgb} = (i\alpha^2)\hat{j}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i} \text{ olef}$   $\vec{M}_{bofgb} = (i\alpha^2)\hat{j}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i} \text{ olef}$   $\vec{M}_{bofgb} = (i\alpha^2)\hat{j}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i} \text{ olef}$   $\vec{M}_{bofgb} = (i\alpha^2)\hat{j}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{i} \text{ olef}$   $\vec{M}_{bofgb} = (i\alpha^2)\hat{j}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{j}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{j} \text{ olef}$   $\vec{M}_{bofgb} = (i\alpha^2)\hat{j}, \quad \vec{M}_{odeAc} = (i\alpha^2)\hat{j},$

(2.0×10-2A-M2))

$$\vec{B}(o, b.om, o) = \frac{100 \text{ M}}{2\pi} = \frac{(1.26 \times 10^{-6} \text{T-m/A})(2.0 \times 10^{-2} \text{ A·m²})\hat{S}}{2\pi (b.om)^{\frac{1}{2}}}$$

$$= (3.2 \times 10^{-11} \text{ T})\hat{S} \quad \text{old}.$$

(3.2×10-11 T) Î