电磁感应双杆通解 () 电势阵及电流正方向

 $B_1L_1V_1-B_2L_2V_2=\overline{E}_{r}=I(R_1+R_2)$. $\therefore I=\frac{B_1L_1V_1-B_2L_2V_2}{R_1+R_2}$ E1 = B1 L1 V1 , E2 = - B2 L2 V2,

 $F_1 = -IL_1B_1 = m_1 \frac{dV_1}{dt}$, $F_2 = IL_2B_2 = m_2 \frac{dV_1}{dt}$, $\frac{m_1}{L_1B_1}\Delta V_1 + \frac{m_2}{L_2B_2}\Delta V_2 = 0$,

1. F1 + 12 F2 = I(1212B2-111B1) = 1 (movedatmovil) = (1212B2-111B1)(B11N-B22N)
R1+R2

 $\frac{dV}{dt} = \left(\frac{B_{1}^{2}L_{1}^{2}}{m_{1}} + \frac{B_{2}^{2}L_{2}^{2}}{m_{2}}\right) \frac{-V}{R_{1}R_{2}}, \qquad mV = \frac{m_{1}B_{1}^{2}L_{1}^{2}m_{1}B_{2}^{2}L_{2}^{2}}{m_{1}m_{2}(R_{1}R_{2})} t + mC, \quad C = B_{1}L_{1}V_{10} - B_{2}L_{2}V_{20}$ $\therefore B_{1}L_{1}V_{1} - B_{2}L_{2}V_{2} = (B_{1}L_{1}V_{10} - B_{2}L_{2}V_{20}) e^{-\frac{m_{2}B_{1}^{2}L_{1}^{2}+m_{1}B_{2}^{2}L_{2}^{2}}{m_{1}m_{2}(R_{1}R_{2})}} + \frac{\pi_{2}R_{1}}{m_{1}m_{2}(R_{1}R_{2})} + \frac{\pi_{2}R_{1}}{m_{1$

:. B.L. $(V_1 - EV_{10}) = B_2 L_2 (V_2 - EV_{20})$ $\tilde{\mathcal{U}} = \frac{m_1}{L_1 B_1} \Delta V_1 = \frac{m_2}{L_2 B_2} \Delta V_2 = \mathcal{U}$

 $\therefore \mathcal{V}_1 = \mathcal{V}_{10} + \Delta \mathcal{V}_1 = \mathcal{V}_{10} - \frac{L_1 B_1}{m_1} \mathcal{U}, \quad \mathcal{V}_2 = \mathcal{V}_{20} + \Delta \mathcal{V}_2 = \mathcal{V}_{20} + \frac{L_2 B_2}{m_2} \mathcal{U},$

: B, L, (V10-EV10 - LIBIN) = B2 Lz (V20 - EVW + LzBz W),

 $: \mathcal{U}\left(\frac{B_{1}^{2}L_{1}^{2}}{m_{1}} + \frac{B_{2}^{2}L_{2}^{2}}{m_{2}}\right) = (1 - E_{1}(B_{1}L_{1}V_{10} - B_{2}L_{2}V_{50}), : \mathcal{U} = \frac{m_{1}m_{2}(B_{1}L_{1}V_{10} - B_{2}L_{2}V_{50})}{m_{2}B_{1}^{2}L_{1}^{2} + m_{1}B_{2}^{2}L_{2}^{2}} (1 - E_{1}).$ $: \mathcal{U}\left(\frac{B_{1}^{2}L_{1}^{2}}{m_{1}} + \frac{B_{2}^{2}L_{2}^{2}}{m_{2}}\right) = (1 - E_{1}(B_{1}L_{1}V_{10} - B_{2}L_{2}V_{50}), : \mathcal{U} = \frac{Av}{Ac}(1 - e^{-\frac{Av}{R_{1}R_{2}}t})$ $: \mathcal{U}\left(\frac{B_{1}^{2}L_{1}^{2}}{m_{1}} + \frac{B_{2}^{2}L_{2}^{2}}{m_{1}}\right) = (1 - E_{1}(B_{1}L_{1}V_{10} - B_{2}L_{2}V_{50}), : \mathcal{U} = \frac{Av}{Ac}(1 - e^{-\frac{Av}{R_{1}R_{2}}t})$ $: \mathcal{U}\left(\frac{B_{1}^{2}L_{1}^{2}}{m_{1}} + \frac{B_{2}^{2}L_{2}^{2}}{m_{1}B_{2}^{2}L_{2}^{2}}\right) = (1 - E_{1}(B_{1}L_{1}V_{10} - B_{2}L_{2}V_{50}), : \mathcal{U} = \frac{Av}{Ac}(1 - e^{-\frac{Av}{R_{1}R_{2}}t})$ $: \mathcal{U}\left(\frac{B_{1}^{2}L_{1}^{2}}{m_{1}B_{2}^{2}L_{1}^{2}} + \frac{B_{2}^{2}L_{1}^{2}}{m_{1}B_{2}^{2}L_{2}^{2}}\right) = (1 - E_{1}(B_{1}L_{1}V_{10} - B_{2}L_{2}V_{50}), : \mathcal{U} = \frac{Av}{Ac}(1 - e^{-\frac{Av}{R_{1}R_{2}}t})$ $: \mathcal{U}\left(\frac{B_{1}^{2}L_{1}^{2}}{m_{1}B_{2}^{2}L_{1}^{2}} + \frac{B_{2}^{2}L_{1}^{2}V_{50}}{m_{1}B_{2}^{2}L_{2}^{2}}\right) = (1 - E_{1}(B_{1}L_{1}V_{10} - B_{2}L_{2}V_{50}), : \mathcal{U} = \frac{Av}{Ac}(1 - e^{-\frac{Av}{R_{1}R_{2}}t})$ $: \mathcal{U}\left(\frac{B_{1}^{2}L_{1}^{2}}{m_{1}B_{2}^{2}L_{1}^{2}} + \frac{B_{2}^{2}L_{1}^{2}V_{50}}{m_{1}B_{2}^{2}L_{1}^{2}}\right) = (1 - E_{1}(B_{1}L_{1}V_{10} - B_{2}L_{2}V_{50}), : \mathcal{U}\left(\frac{Av}{R_{1}^{2}} + \frac{Av}{R_{1}^{2}}\right) = (1 - E_{1}(B_{1}L_{1}V_{10} - B_{2}L_{2}V_{50}), : \mathcal{U}\left(\frac{Av}{R_{1}^{2}} + \frac{Av}{R_{1}^{2}}\right) = (1 - E_{1}(B_{1}L_{1}V_{10} - B_{2}L_{2}V_{50}), : \mathcal{U}\left(\frac{Av}{R_{1}^{2}} + \frac{Av}{R_{1}^{2}}\right) = (1 - E_{1}(B_{1}L_{1}V_{10} - B_{2}L_{2}V_{50}), : \mathcal{U}\left(\frac{Av}{R_{1}^{2}} + \frac{Av}{R_{1}^{2}}\right) = (1 - E_{1}(B_{1}L_{1}V_{10} - B_{2}L_{2}V_{50}), : \mathcal{U}\left(\frac{Av}{R_{1}^{2}} + \frac{Av}{R_{1}^{2}}\right) = (1 - E_{1}(B_{1}L_{1}V_{10} - B_{2}L_{2}V_{50}), : \mathcal{U}\left(\frac{Av}{R_{1}^{2}} + \frac{Av}{R_{1}^{2}}\right) = (1 - E_{1}(B_{1}L_{1}V_{10} - B_{2}L_{2}V_{50}), : \mathcal{U}\left(\frac{Av}{R_{1}^{2}} + \frac{Av}{R_{1}^{2}}\right) = (1 - E_{1}(B_{1}L_{1}V_{10} - B_{2}L_{2}$

ジル始距离 Do, D=Do-Stvidt+Stv2dt=Do-Scu-v2)dt.

V1-V2=(V10-V20)-(LiBi - LiBi). At (1-e RHOt)

= Do - [1/10-1/20] - (LiBi - LiBi Mz - LiBim) Av | t + (LiBi - LiBi) Av (Rith) e Arks t d (- Ac t) = Do - (1/10-1/20) t + (LiBimz - Libim) Av) t - (mslibi-millibi) Av (Rithi) (1-e - Ac Rithit)

: $V = A_V e^{-\frac{A_C}{R_T R_2}t}$, $I = \frac{V}{R_T R_2}$. $Q = \int_0^t I^2 (R_T R_2) dt = \int_0^t \frac{A_V^2 e^{-\frac{A_C}{R_T R_2}t}}{R_T R_2} dt = \frac{A_V^2}{2A_C} e^{-\frac{A_C}{R_T R_2}t}$

Exo = = mi Vio + = m2 V2

Exf = \frac{1}{2}m_1\left[\frac{1}{10} - \frac{\text{L1B.AV}}{m_1Ac}\left[\frac{1}{2} - \frac{Ac}{\text{MTRST}}\right]\right]^2 + \frac{1}{2}m_2\left(\frac{1}{2}\text{MS-AV} - \frac{\text{L2B.AV}}{m_2Ac} - \frac{\text{L2B.AV}}{m_2Ac} - \frac{\text{Acc}}{\text{MS-AC}}\right]^2 \Right] \Right] \Right] = \Right] 9 = St Idt = So Are e - Act dt = Ar - Are - Are

低速电磁均换系公式

原则:电磁均可以变,爱力不能度,对任高运动成正

特系·Oxyz 动象:Ox'y'z'、相对特象以V沿义正向运动

 $F_x = (E_x + v_y B_z - v_z B_y)q = F_x = [E_x + v_y B_z - v_z B_y]q$

 $F_y = (E_y + V_z B_x - V_x B_z)q = F_y = \overline{E}y + V_z B_x - (V_x - V_z B_z)q$

 $F_z = (E_z + V_x B_y - V_y B_x)q = F_z = [E_z + (V_x - V_y B_y - V_y B_x)q$

 \Rightarrow Ex = Ex' Ey = Ey' + VBz' Ez = Ez' - VBy

Bx = Bx' By = By' Bz = Bz'

⇒ E=戸+B×マ=戸+B×マ B=B

ビ=ビ+ママB=ビ+マ×B' B=B

即定系换动乳出型的涡旋电场,动系振定系出的双分涡旋电场。

用途:1.复合场代替配速流;

2. 动磁均电磁感定本质理解。

测量电阻大小的内升接NRARV判据推导 の外接: Ryl = Rx+RA > 47 = 1R4 - Rx1 = RA ②内接 1 \Rightarrow Δ $\beta = |R\beta - Rx| = \frac{Rx^2}{Rx+Rw}$ $Rrh = \frac{RvxRv}{Rx+Rv}$ 表高到电阻家际值队办庭,相对该系 氖 与绝对谈系△大小系系一样, RALRX+RV) △升- ÷△内= 当内摄该无小时, 会 71, 即 Rx2- RARX-RARV<0, (且 Rx 70). = O < RX < 1 (RA+) RA+ 4RARV), 当 RA < RV时(一般情畅), O < RX < NRARW。 同理,当外接该系小时, RX TNRARW。 (注:由此可见, Rx=NRARV)时, 龙内接,但应用价值不大)

期末物理第8起

国原于电子质量m,电荷 e,外加硫均B,角速度顶化AW(银小),半径下不废,

利用物理学中常用方法 —— 爆解+毫不多得了——判断AW:

外加磁的前, mrw= kt 0

水如麻奶后,mrw^R= k产± ewrB ②;

考虑到 Δω=ω′-ω 很小, Δωβ含弃, ₩含弃,

W12 = (W+AW) = W2+2WAW,

则由②, mrw2+2mrwaw=ke2t(ewrB+eawrB).

50 R\$, 2mrwsw=t(ewrB+eswrB)

Rpaw= = t(eB + eBaw) = + eB .

和2:1955高中但极不严谨),

曲の、W= Nmr3 ③. 田田、W= LerBt NerrB2+ kerm

由于如政府电扫运动产生的磁场,且与外磁场方向相反,大部分材料具独特的流磁性。