Caro Professore,

Questa mattina è sollecitato [illegible] le [illegible]
di congratularmi per le brillanti [illegible] nel
Comune di Genova [illegible] Napoli. Ora che Ella è
[illegible] leggo a Napoli, [illegible]
[illegible] Del Re, [illegible]

Ad ogni modo, se non ho potuto [illegible] il
piacere di [illegible] compagnia all'Univ. di Napoli, sono lieto
che Ella [illegible] nella maggior misura possibile alla sua [illegible]
~~ed al suo caro [illegible]~~ ed in [illegible] città [illegible]
~~[illegible]~~ [illegible] la libera docenza [illegible]
~~e di raccomandare il mio [illegible] ai suoi [illegible]~~

Intanto non mancherò di [illegible]
della sua venuta, [illegible] Ella [illegible] non
vorrà certo privarmi di passare qualche giorno
a ~~[illegible]~~ a casa nostra, e [illegible]
glielo dico anche a nome di mia moglie, che
ha vivo desiderio di [illegible] la sua signora ed i bimbi, ai quali
manda [illegible] saluti [illegible]

(*) ~~[illegible]~~

Ora vedrà il prof. Gerbaldi, [illegible]
[illegible] per non aver potuto [illegible] in [illegible]
di tempo per [illegible]. Sono [illegible] occupato [illegible] e
ed [illegible], e [illegible] nella redazione
[illegible] di algebra [illegible] l'ultima [illegible]

$$\frac{dx_3}{ds} = \frac{R}{x_2}, \qquad \frac{dx_2}{ds} = -\frac{R}{x_3}$$

$$\frac{\delta}{x_0} + \frac{2}{x_2} = 0, \qquad x_1 = 0$$

$$\frac{dx_3}{ds} = \frac{R}{x_2}$$
$$\frac{dx_2}{ds} = \frac{2}{x_1} - \frac{R}{x_3}$$
$$\frac{dx_1}{ds} = -\frac{\delta}{x_0} - \frac{2}{x_2}$$
$$\frac{dx_0}{ds} = 1 - \frac{\delta}{x_1}$$

$$x_0 = 0, \quad x_1 = \delta$$

$$0 = \frac{2}{x_2} + \frac{\delta}{x_0}, \qquad x_1 = 0$$

Teoria [illegible]

Sp. osculat.
Sp. normale
Sp. [illegible]

Non

$$\begin{cases}\sum ba=0 \\ \sum bda=0 \\ \sum bd^2a=0\end{cases} \quad \begin{matrix}\sum ca=0 \\ \sum cda=0 \\ \sum cb=0\end{matrix} \quad \begin{matrix}\sum \lambda a=0 \\ \sum \lambda b=0 \\ \sum \lambda c=0\end{matrix}$$

$\lambda_i \equiv da_i$

$c_1 = Aa_1 + Bda_1 + Cd^2a_1$

$Aa + Bda + Cd^2a$

$A + C\sum ad^2a = 0$

$B\sum da^2 + C\sum dad^2a = 0$

$A\sum ad^2a + B\sum da + C\sum (d^2a)^2 = 0$

$b_1 =$

$\lambda_2 = Aa_2 + Bda_2 + Cd^2a_2$

$A + C\sum ad^2a = 0$

$C\sum Cd^2a = 0$

$1 = A^2 + B\sum da^2 + C\sum (d^2a)^2 +$

$+$

$c = Aa + Bda + Cd^2a$

C

$A + C\sum ad^2a = 0$

$B\sum da^2 + C\sum dad^2a = 0$

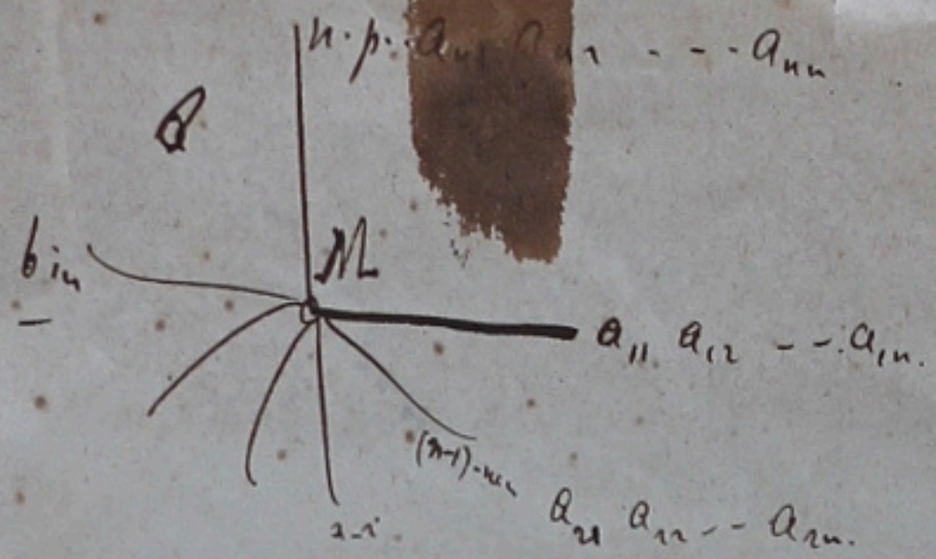
$C\sum bd^2a = 0$

$1 = C\sum cd^2a$

$b = Aa + Bda + Cd^2a$

$$\begin{cases} A + C\sum ad^2a = 0 \\ B\sum da^2 + C\sum dad^2a = 0 \\ A\sum ad^2a + B\sum dad^2a + C\sum (d^2a)^2 = 0\end{cases}$$

$\cdot = 0$



$n=4$

~~$a_{11}a_{11}+a_{22}$~~

$$\begin{cases} \sum a_{2i}a_{1i}=0 \\ \sum a_{2i}\,da_{1i}=0 \\ \vdots \\ \sum a_{2i}\,d^{n-2}a_{1i}=0 \end{cases} \quad \left| \begin{array}{l} \sum a_{2i}a_{1i}=0 \\ \vdots \\ \sum a_{2i}\,d^{n-2}a_{1i}=0 \\ \sum a_{2i}\,a_{2i}=0 \end{array} \right.$$

$$a_{21}=-\frac{1}{\varphi}\begin{vmatrix} a_{12} & a_{13} & \dots & a_{1n} \\ da_{12} & da_{13} & \dots & da_{1n} \\ \vdots & & & \\ d^{n-2}a_{12} & d^{n-2}a_{13} & \dots & d^{n-2}a_{1n} \end{vmatrix}$$

$$a_{31}=\frac{1}{\psi}\begin{vmatrix} a_{12} & a_{13} & \dots & a_{1n} \\ da_{12} & da_{13} & \dots & da_{1n} \\ d^{n-3}a_{12} & d^{n-3}a_{13} & \dots & d^{n-3}a_{1n} \\ a_{22} & a_{23} & \dots & a_{2n} \end{vmatrix}$$

$$\sum da^2=\varepsilon^2$$

$$\sum da\,d^2a=\varepsilon\,d\varepsilon$$

$$\sum a\,da=0$$

$$\sum a\,d^2a=-\varepsilon^2$$

$$A=C\varepsilon^2$$

$$B\varepsilon=-C\,d\varepsilon$$

$$\begin{cases} kA=k\varepsilon^3 \\ kB=-k\,d\varepsilon \\ kC=k\varepsilon \end{cases}$$

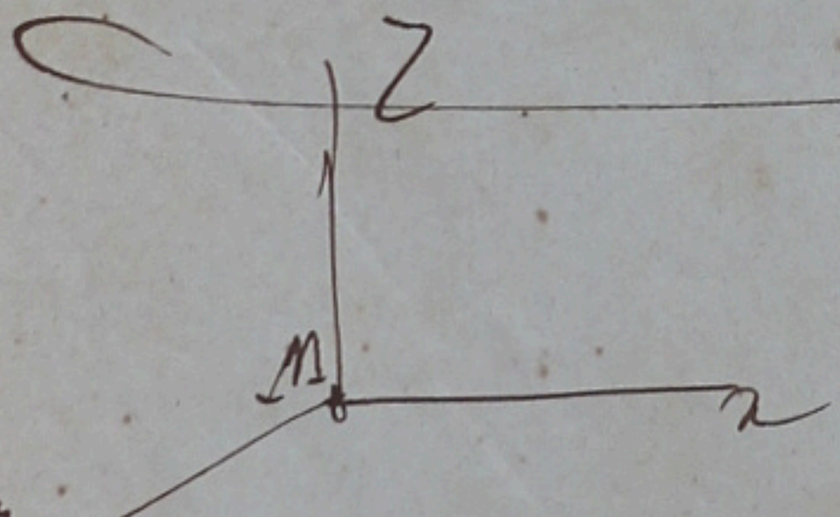
$$k\varphi=-k\,d\varepsilon$$

$$\sum l^2=1$$

$$\begin{cases} \sum la=0 \\ \sum l\,da=0 \end{cases} \quad \left| \begin{array}{l} \sum f_a=0 \\ \sum f_l=0 \end{array} \right.$$

$$B\varepsilon^2+C\,d\varepsilon=0$$

$$f=k\,da.$$



$$f=A\alpha+B\,da$$

$$A=0$$

$$l=A\alpha+B\,da+C\,d^2a$$

$$kl=\varepsilon^3\alpha+d\varepsilon\cdot da+\varepsilon\,d^2a\cdot\alpha$$

$$A+C\sum a\,d^2a=0$$

$$B\sum da^2+C\sum da\,d^2a=0$$

$$\sum l\,da=0$$

$$k\varepsilon\,\frac{1}{C}=A\sum a\,d^2a+B\sum da\,d^2a+C\sum (d^2a)^2$$

F. Mat. | 1- Elasticità (Cauchy leg. Hooke, Green, Betti, Beltrami, Cerruti, Fiorini).
2- Elettricità ottica secondo Maxwell (Poincaré)
3- Elettrostatica (Duhem, 1°)
4- Magnetismo (" 2°)
5- Elettrodinamica (" 3°).
9- Capillarità
11- Teoria anal. del calore
8- Termodinamica
7- Acustica
10- Teoria matematica della luce
6- Elettrodinamica

Capillarità
Termodin.
Elettrodin.
Acustica
ottica
Elettrodin.

f(x,y,z)

Teoria

f. a.
formalesbo

$$\begin{matrix} 0 & f'_x & f'_y & f'_z \\ f'_x & & & \\ f'_y & & & \\ f'_z & & & \end{matrix}$$

$$\rho = \frac{3}{5p}$$

$$\begin{vmatrix} \frac{\partial \lambda_0}{\partial x_e} \lambda - x\frac{\partial \mu_0}{\partial x_e} & \frac{\partial \lambda_0}{\partial y_e} & \frac{\partial \lambda_0}{\partial z_e} \\ \frac{\partial \mu_0}{\partial x_e} & \frac{\partial \mu_0}{\partial y_e} \lambda - x\frac{\partial \mu_0}{\partial y_e} & \frac{\partial \mu_0}{\partial z_e} \\ \frac{\partial \nu_0}{\partial x_e} & \frac{\partial \nu_0}{\partial y_e} & \frac{\partial \nu_0}{\partial z_e} \lambda - x\frac{\partial \nu_0}{\partial z_e} \end{vmatrix} = H$$

$$\begin{vmatrix} \frac{\partial \lambda_0}{\partial x_e} \lambda - x\frac{\partial \lambda_0}{\partial x_e} & \frac{\partial \lambda_0}{\partial y_e} & \frac{\partial \lambda_0}{\partial z_e} \\ \frac{\partial \mu_0}{\partial x_e} & \frac{\partial \mu_0}{\partial y_e} \lambda - x\frac{\partial \mu_0}{\partial y_e} & \frac{\partial \mu_0}{\partial z_e} \\ \frac{\partial \nu_0}{\partial x_e} & \frac{\partial \nu_0}{\partial y_e} & \frac{\partial \nu_0}{\partial z_e} \lambda - x\frac{\partial \nu_0}{\partial z_e} \end{vmatrix} = H$$

$$\frac{\partial \lambda_0}{\partial x_e}\lambda^3 - \lambda^2\left(x\frac{\partial \lambda_0}{\partial x_e} + y\frac{\partial \mu_0}{\partial x_e} + z\frac{\partial \nu_0}{\partial x_e}\right) + \lambda\left(\frac{\partial \lambda_0}{\partial y_e}yz + \frac{\partial \mu_0}{\partial y_e}xz + \frac{\partial \nu_0}{\partial z_e}xy\right) - \left(\frac{\partial \lambda_0}{\partial y_e}yz + \frac{\partial \mu_0}{\partial y_e}xz + \frac{\partial \nu_0}{\partial z_e}xy\right) = 0$$

$$\frac{\partial \lambda_0}{\partial x_e}\lambda^3 - \lambda^2\left(x\frac{\partial \lambda_0}{\partial x_e} + y\frac{\partial \mu_0}{\partial x_e} + z\frac{\partial \nu_0}{\partial x_e}\right) + \lambda\left(\frac{\partial \lambda_0}{\partial y_e}yz + \frac{\partial \mu_0}{\partial y_e}xz + \frac{\partial \nu_0}{\partial z_e}xy\right) - \left(\frac{\partial \lambda_0}{\partial y_e}yz + \frac{\partial \mu_0}{\partial y_e}xz + \frac{\partial \nu_0}{\partial z_e}xy\right) = 0$$

$$\frac{\partial \lambda_0}{\partial x_e}\lambda^3 - \lambda^2\left(x\frac{\partial \lambda_0}{\partial x_e} + y\frac{\partial \mu_0}{\partial x_e} + z\frac{\partial \nu_0}{\partial x_e}\right) + \lambda\left(\frac{\partial \lambda_0}{\partial y_e}yz + \frac{\partial \mu_0}{\partial y_e}xz + \frac{\partial \nu_0}{\partial z_e}xy\right) - \left(\frac{\partial \lambda_0}{\partial y_e}yz + \frac{\partial \mu_0}{\partial y_e}xz + \frac{\partial \nu_0}{\partial z_e}xy\right) = 0$$

$$\sum af = 0$$
$$\sum lf = 0$$
$$\sum_1^z f^2$$

$$\sum adf = -\sum fda = -\sum fp\varepsilon = -\varepsilon\sum f^2$$
$$\sum ldf = -\sum fdl = -\eta$$
$$\sum fdf = 0$$

$$df = -a\varepsilon - l\eta$$

Metà in conto

C M A B

$$\frac{MA}{MB} : \frac{CA}{CB}$$

$$\frac{p}{q} : \frac{p_0}{q_0} = \frac{p}{q} : \frac{b}{a} = \frac{ap}{bq} = \frac{x_1}{x_2}$$

$x_2 = 0$ $\quad \infty$

$x_1 = 0 \quad 1$

0

$$\varepsilon^2 = (bdc - cdb)^2 + \cdots$$

$$\varepsilon^2 = da^2 + db^2 + dc^2$$