MANGE KONEJAHUA BOKP-TU N.P.

- · housepb. cucr.
- · n cien cbro.
- · nueet notone pabuol.
- $\Pi = \Pi(q)$ annumera & minore. pabholecus.
 - · N=No+10+10++
 -]N= N2+ ··· >0, morge nonone palmol yes.
 - $\frac{11}{4} \frac{30}{30} \frac{30}{30} = 0$
 - T= = 2 = Qiu q1, -, 9x | qi qx,

Upp Q f k (q, .., q k) = a i k (q..., 0) +....

 $T = \frac{1}{2} \sum_{k,i=1}^{n} Q_{ik} q_{i} q_{ik} + \dots$ $T = \sum_{i,k=1}^{n} Q_{ik} q_{i} q_{ik}$ Uax une une to botophi

, M= Z Ciu gigh

 $\int_{\Gamma_{n}}^{T_{CS}} \left(C_{n} q_{n} + C_{n} q_{n} \right) = 0, \quad \Gamma \in \overline{R}$

Morga nepenrembad napez matoriza coorti kbago. Porm non guiten: $A\ddot{q} + C\bar{q} = 0$

HOUCHERT:

MOPWANDRUCEDSON, KONGAKUKI

Montagnu nauguetieure yp- x x gxxx. Brqy n Parcuits oubalu npoer,

7. K. Kuu. surpruse up. nouv surrens na, no noubegine κ guar. $\widehat{\mathcal{J}}_{\alpha}$. $\mathbb{R}_{\mu}(\widehat{q}) = (A\widehat{q}, \widehat{q}) \mid \mathbb{B}_{\alpha} \widehat{\mathcal{J}}_{\alpha}$ experie: $\widehat{\mathcal{G}} = \|\widehat{\mathcal{G}}_{\mu}\| : \widehat{\mathcal{Q}} = \widehat{\mathcal{U}}\widehat{\mathcal{D}}$ $\mathbb{R}_{\epsilon}(\widehat{q}) = (\widehat{\mathcal{C}}_{\overline{q}}, \widehat{q})$

 $log: (Aa, a) = \sum_{j=1}^{n} \theta_{j}^{2}$ $(a, b) = \sum_{j=1}^{n} \lambda_{j} \theta_{j}^{2}$ $Q = \sum_{i,k=1}^{n} \theta_{i} \overline{\mu}_{i}$ $(a, b) = \sum_{i=1}^{n} \lambda_{i} \theta_{i}^{2}$ $(a, b) = \sum_{i=1}^{n} \lambda_{i} \theta_{i}^{2}$ $(b) = \sum_{i=1}^{n} \theta_{i}^{2}$ $(c) = \sum_{i=1}^{n} \theta_{i}^{2}$ $(c) = \sum_{i=1}^{n} \lambda_{i} \theta_{i}$

 $(A \overline{u}_i, \overline{\overline{v}_j}) = \begin{cases} 1, & \text{our } \overline{s} = \overline{j} \\ 0, & \text{our } \overline{i} \neq \overline{j} \end{cases}$ (11)(10)

Gi=(j sinloit+1:) Konedomaa nponen. Kan n nezola napu ocumuntopola.

 $\overline{q} = \sum_{i=1}^{\infty} c_i \overline{u_i} \sin(co_i + d_i)$ (į u)

J q= Ci Vi Sinaitizi), aumnutyguocci

 $\|C - AA\| \overline{\omega} = 0$ YPABREURE NACTOT (benilos Mp-e): $dot ||c-\lambda H|| = 0$ Kourneut:

Nonconsus Cacteria nog generonem buemun neprognaccunx can.

Paccuospun poètoty 121 nec 6.n: $SA = \sum_{i=1}^{n} Q_{i} S_{i}q_{i} = \sum_{i=1}^{n} P_{i} S_{i}$ $\alpha_i = \sum_{i=1}^n u_{i,i} \Theta_i$ $\partial q_i = \sum_{i=1}^{n} u_{ij} \delta \theta_i$ $\partial A = \sum_{i=1}^{n} Q_i \sum_{i=1}^{n} u_{i,j} \partial Q_i = \sum_{j=1}^{n} \left(\sum_{i=1}^{n} u_{i,j} Q_i \right) \partial Q_j$ T.e.: $\theta_i + co_i^2 \theta_i = \theta_i (1)$ · Je; muser reprog 200 rg. rege st. unero to brewner wind. •] $\Theta_{j}(t) = \sum_{k=1}^{\infty} A_{jk} \sin(k s \lambda t + L_{jk})$ (2) • $\int G_5 = C_5 \sin(\cos(4+d_5) + \theta_5^*(4)$ •] S'; " (+) = = = Ask Sin (x (+ 1 sk)) molgo: $\bar{q} = \sum_{j=1}^{n} c_{j} \bar{v}_{j}$ sin($ao_{j} + td_{i}$) $+ \sum_{j=1}^{n} Q_{s}^{*} (+) \bar{u}_{s}$

LOUCHPUT:

(unepovounA: Nyers CUCTCULO $T = \frac{1}{2} \hat{Z} Q_{1K}(a_1,...,q_n) \hat{q}_1 \hat{q}_K$ $\frac{d}{dt} \frac{2T}{2a} - \frac{2T}{2a} = O_1(a, a)$ nonumeuna pabuobecue: q:=...=q,=0, morgo: $T = \frac{1}{2} \sum_{i=1}^{n} \alpha_{in} \dot{q}_{i} \dot{q}_{ik} \qquad (3)$ $Q_{\bar{i}} = Q_{\bar{i}}(0,...0) + \sum_{k=1}^{n} \left(\frac{\partial Q_{\bar{i}}}{\partial q_{k}} dq_{k} \right) + \sum_{k=1}^{n} \left(\frac{\partial Q}{\partial q_{k}} \right) dq_{k} + \dots$ Morge blegëm stotre enny nepez eneg stognærenna; $Q_{\tau} = -\sum_{k=1}^{n} (c_{fu}q_{k} + b_{ik}q_{k}) \qquad (4)$ (5) $\sum_{k=1}^{\infty} (a_{ik} \dot{q}_{ik} + G_{ik} \dot{q}_{ik} + G_{ik} \dot{q}_{ik} + G_{ik} \dot{q}_{ik}) = 0 \quad , \quad j \in I, N$ 0003 uaraa A= ||ain||in=1; B=||Bin||; C=||Cin||; q=(in), moyee: $\beta + \beta \dot{q} + C \bar{q} = 0 ,$ Type engit HTb: $q = U e^{2t}$ (7) ||A x2+Bx+C||u=0 rempose penieura: det || Azz+13z+c|=0, (8) Tr = Wie 227

 $\frac{q_1 = u_1 e}{q = \sum_{j=1}^{2n} C_j \overline{u_j} e^{\mathcal{L}_s t}} \qquad (9)$

Kourneut:

· Nyert Deriembyen buennuna ennu.
Nyert can a genier byer mororo no verbon rapq: $A\vec{q} + B\vec{q} + C\vec{q} = Q(t) \qquad (10)$ Q = Q = 0; $Q \neq 0$, magi: $\hat{Q} = 2e^{i\omega t}$ $Q_1 = 2m Q_1$ $\sum_{\kappa=1}^{\infty} (a_{1n} \dot{q}_{1n} + G_{1n} \dot{q}_{1n} + C_{1n} \dot{q}) = 2e^{-i\omega t}$ $\begin{cases} \sum_{N=1}^{K=1} \left(a_{j} \cdot n \cdot \dot{q}_{1} + b_{j} \cdot n \cdot \dot{q}_{N} + C_{j} \cdot q \right) = 0, \quad qe \quad \vec{j} = 2, \vec{N} \end{cases}$ Pemerve: q== = cove e 2et + q; q==1mq; $\overline{q}^{n} = | \overrightarrow{q}^{n} | ; \quad \widehat{q}^{n} = \widehat{B}_{n} e^{i \alpha \sigma + i \beta}$ Z [an (iw)2+ Bin (iw) + Cin] Br=L [En Lask (ico) + Gir (ico) + Cir] Br = 0 $\beta_{n} = W_{in} (i\omega) 2 = \sum_{i} (i\omega)$ (Wix (iw))=Rix (w); Wix (iw)= Rix (w) e i 41x (w) $q_{\alpha}^{\dagger} = d R_{1K}(co) 95 m (co) + \psi_{1K}(co)$ $Re \qquad |Re|A|$