```
\begin{split} \cos(\varphi)sin(\varphi)l0 - R \begin{pmatrix} \dot{x} \\ \dot{\varphi} \\ \dot{\varphi}_1 \\ \dot{\varphi}_2 \end{pmatrix} \\ \dot{q} &= [r]cos(\varphi)sin(\varphi) - l - R0 \\ cos(\varphi)sin(\varphi)l0 - R \begin{pmatrix} \dot{x} \\ \dot{y} \\ \dot{\varphi}_1 \\ \dot{\varphi}_2 \end{pmatrix} \end{split}
     Ιόό<br/> \dot{q}=G(q)\eta {\rm gdzie} \overset{``\varphi''}{A}(q)G(q)=0, \\ \dot{q}=G(q)\eta=\cos(\varphi)\cos(\varphi) \sin(\varphi)\sin(\varphi)
                                  \label{eq:phi2} \begin{split} \mbox{$\dot{\rm l}$} \dot{z} \dot{\phi}_1 &= \tfrac{2}{R} \eta_1, \dot{\phi}_2 = \tfrac{2}{R} \eta_2 \\ \mbox{$\dot{\rm l}$} \dot{z} \dot{\zeta} \begin{pmatrix} \dot{x} \\ \dot{y} \\ \dot{\varphi} \end{pmatrix} = \cos(\varphi) 0 \end{split}
  v = \frac{R}{2}(\dot{\phi}_1 + \dot{\phi}_2) \acute{s} \acute{c}
\omega = \frac{R}{2l}(\dot{\phi}_1 - \dot{\phi}_2) \acute{s} \acute{c}
\acute{S}
\begin{split} & \operatorname{l\acute{o}\acute{c}\acute{z}\acute{c}l}\begin{pmatrix} x_e \\ y_e \\ \varphi_e \end{pmatrix} = Rot(Z, -\varphi) \begin{pmatrix} e_x \\ e_y \\ e_\varphi \end{pmatrix} = cos(\varphi)sin(\varphi)0 \\ & - sin(\varphi)cos(\varphi)0 \\ & 001 \begin{pmatrix} x_d - x \\ y_d - y \\ \varphi_d - \varphi \end{pmatrix} \end{split}

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