ローミニュ漢_{partiment} of Applied Mathematics, University of Western Ontario, London, Ontario, Canada

1709), Fransford (1970) and Jeffrey (1982) with the aim of calcul ating asymptotically.tha.

roices exel teatby and spincres on the hall the ralls orces are not the only quantities of interest, nowever, because the analysis of the properties of suspens on of east plantaes itegrales the me stressiers of the spheres, denned by Batchelor (1970 as:

 $S = -\int \int_{0}^{1} (\mathbf{x}' \boldsymbol{\sigma} \cdot \mathbf{n} + \boldsymbol{\sigma} \cdot \mathbf{n} \mathbf{x}')$ $-|\mathbf{I}\mathbf{x}'\cdot\boldsymbol{\sigma}\cdot\mathbf{n}|\,\mathrm{d}A.$ (1=1): I ne vector x is drawn from the centre of the sphere. Various authors h ave defined resistance

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of ψ . This is not so for the stresslet, however. For its calculation was





U=0 and W=-1 on $Z=H_1+\epsilon \frac{1}{8}R^4$,



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W.

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onditions into

tretched coordinates, we obtain:

$$W = -1 - \varepsilon(1 - \varepsilon)$$
 and $U = -\frac{1}{2}\varepsilon^{1/2}K$

Therefore the bounder, Moonditions on the defectorisming sprice become

$$H^{+}(R,H_{\perp})$$
 . It and $H^{+}(R,H_{\perp})$, R^{-} , R^{+}

the the routh

are the same as in the previous

again the pressure where Richards large

against he pressure Richards large

against he previous

the force calculation does not give

oremistants. that that ore recovers are proportional to ...

section. The incline thod of solution is also the same and goes as $O(R^{-1}) + \varepsilon O(R^{-1})$. Since this flow not the stresslet to calculate. How

new party reliable to the tector ocatal the volume resistance matrix is symmetric

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"Heroge a ze progreta ra colourate a ne Orangotiis tatus, "wo wish ta ay tend the results la la la ...

 $C \Leftrightarrow C \Rightarrow m$ in the integral case k = r using a gilala examinate glikalinow that c_{max}

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i.e. will be the same. We also note from (2.11)—(2.14) that the coemcionis

the or hard Inditerms of M.S. and Wille Miz are equal. If we suppose inatiful win bevious for

the rule a interentiano, acouserente est profit (2) un and mess i station then recently es

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(4.9)

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The same considerations and assumptions lead to:

 $X_{11}^{M} = \frac{2}{5} \left(1 + \frac{1}{2} \varepsilon \right) X_{11}^{G}$

 $T_{X'';z} = \frac{31}{8} \frac{27}{8} \frac{10}{10} \ln \frac{1}{8} + 27 \frac{117}{560} \ln \frac{117}{560} \ln \frac{180}{8} + 60 \ln \frac{1}{8}$



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