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Convergence of dual infinity series

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Abstract: The solution of the system of the partial differential motion equations describing the movement of plate element by Fourier's series is presented in the article. The investigated function is expressed by product of three or four functions of the particular variables. These functions are demanded relation for the calculation of the displacement components, rotation components and stress components. These functions are defined in the form of the dual infinite series. The sum of these functions is necessary to perform by the numerical summarization element by element. The convergence of these series has to be proved before, namely in the equations of stresses.

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