Problem 7. *Plotting scalar functions of complex variables* Given the function $f(z) = \frac{1}{z^4 + 8}$ with complex variable input $z = x + jy$, create a contour plot in Matlab/Octave that has $Re(z)$ as the x-axis, $Im(z)$ as the y-axis, and $|f(z)|$ as the z-axis. Plot it for the range $-5 < Re(z) < 5$ and $-j5 < Im(z) < j5$, with at least a grid of 100 points for each axis (hint: use linspace, meshgrid, and surf functions in Matlab). What happens in the contour plot near the problematic points discussed in Problem 4(d) (Note: the problematic point for this $f(z)$ will be different than those for Problem 4(d))?

Unctions Of A Complex Variable

Hemant Kumar Pathak,Ravi P. Agarwal,Yeol Je Cho

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