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*Plurisubharmonic defining functions*

Necessary conditions for a domain  $\Omega \subset \mathbb{C}^n$  admitting a local plurisubharmonic defining function on the boundary are given. In tandem, we give an algorithm to construct a local plurisubharmonic defining function on the boundary when one exists. The process involves solving partial differential equations. In some cases we show that the necessary conditions are also sufficient.