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relationship between the velocity potential  
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EXACT SOLUTIONS Page 7-6  $2 \ 1 \ 1 \ 2 \ 1$

$2 \ 8 \ ( )$  and  $8 \ du \ d \ u \ A \ y \ A \ dy \ dy$  Hence the differential equation is satisfied provided

$A = P$  so that a solution is:  $2 \ 1 \ 1 \ 2 \ ( ) \ 1 \ 4 \ ($

$)u \ y \ P \ y \ (b) \ 2 \ 1 \ \sinh \ ( , ) \ \sin \ \sinh \ n \ n \ n \ z \ u$

$y \ z \ B \ n \ y \ n \ 2 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2$  and  $u \ u \ n$

$u \ n \ u \ y \ z$  Hence another solution is:  $2 \ 1$

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$\sinh(\alpha z) \sin(\alpha y) \sin(\alpha n z) u y z B n y n (c) 3$   
 $1 \sinh(\alpha z) \sin(\alpha y) \sin(\alpha n z) u y z C n y n$   
 $2^2 3^2 2^2 2^2 3^2 2^2$  and  $u u n u n u y z$   
Hence another solution is:  $3 1 \sinh(\alpha z) \sin(\alpha y)$   
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$\rho_1$  or  $\rho = \rho_2$  will have its density remain fixed at  $\rho = \rho_1$  or  $\rho = \rho_2$  so that  $D\rho/Dt = 0$ . f14 Fundamental Mechanics of Fluids  $y$   
 $\rho = \rho_2$   $\rho = \rho_1$  x FIGURE 1.3 Flow of density-stratified fluid in which  $D\rho/Dt = 0$  but for which  $\partial\rho/\partial x \neq 0$  and  $\partial\rho/\partial y \neq 0$ .

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