Roblem Set - 13  1. Conceptual abstraction  1. Conceptual abstraction  1. Longetual abstraction  2. Longetual abstraction	ALGORIMMINATION (DISCRETIZATION):  (a)  (b)  (c)  (c)  (c)  (c)  (c)  (c)  (c
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for hear of n (1) p'(t)= f(t+st)-f(y -> f(t+st)=f(t)+s-11(t) FTG/ leg (frx) law be solved by Using Porward Euler Schewe head y(ti+st) = y(ti) + dtg, (ti, y(ti))  $\frac{\partial u_{i}(t)}{\partial t} = \frac{k}{4^{2}} \left[ u_{i+1}(t) - 2u_{i}(t) + u_{i+1}(t) \right]$  $u_{i+1} = u_{i}^{n} + \kappa \ell \left( \mu_{i+1}^{n} - 2u_{i}^{n} + u_{i-1}^{n} \right)$ give as forward hime (curred shape (fTCS) yin = yi + bt - flei, yi) we apply centered difference schana for space Date = Right - 2 Lited + Water 41(t) = f(f) Boundary condition: Mr., Max forward Fubrscheme Initial condition: Hit



