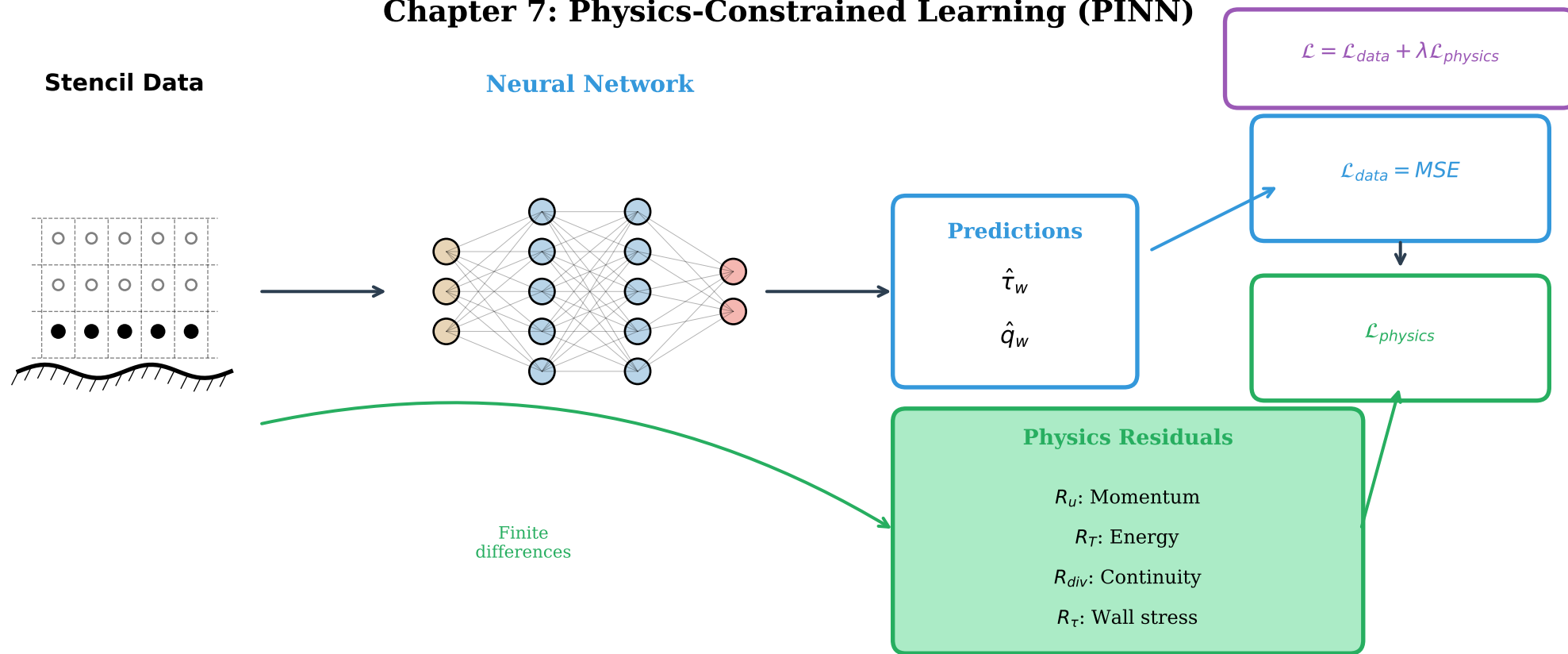


## Chapter 7: Physics-Constrained Learning (PINN)



*Key insight: Physics constraints provide regularization for extrapolation beyond training data*