Nonlinear Control for Quadratic Boost Output Voltage Regulation

Fig. 1. Simulation results for the proposed controller and desired output xref = 12 V

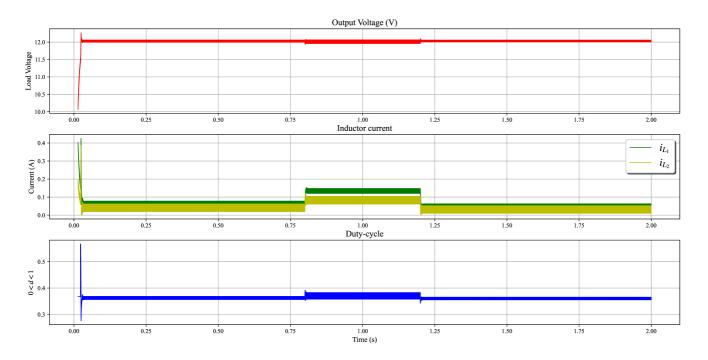


Fig. 2. Zoom in for the proposed controller and desired output xref = 12 V

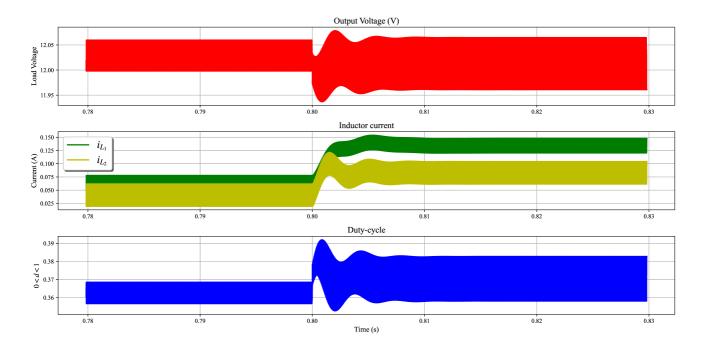


Fig. 3. Simulation results for PI controller and desired output xref =12 V

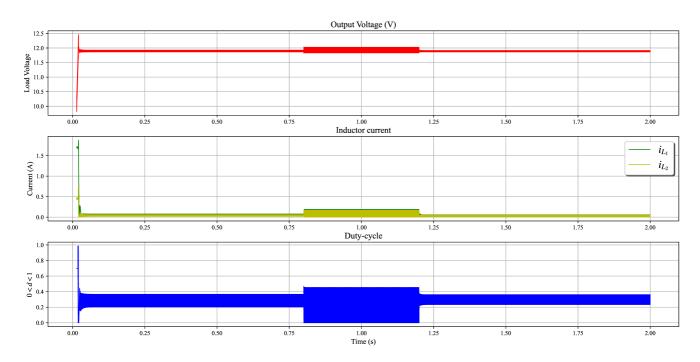


Fig. 4. Zoom in for PI controller and desired output xref = 12 V

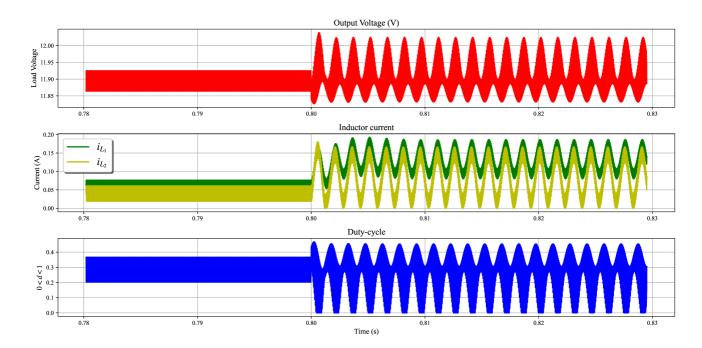


Fig. 5. Simulation results for the proposed controller and desired output xref = 24 V

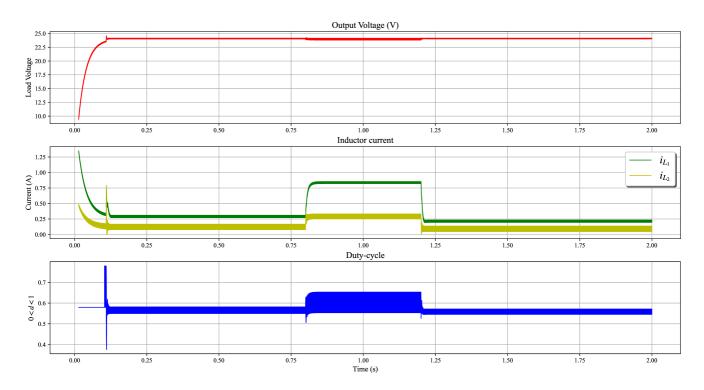


Fig. 6. Zoom in for the proposed controller and desired output xref = 24 V

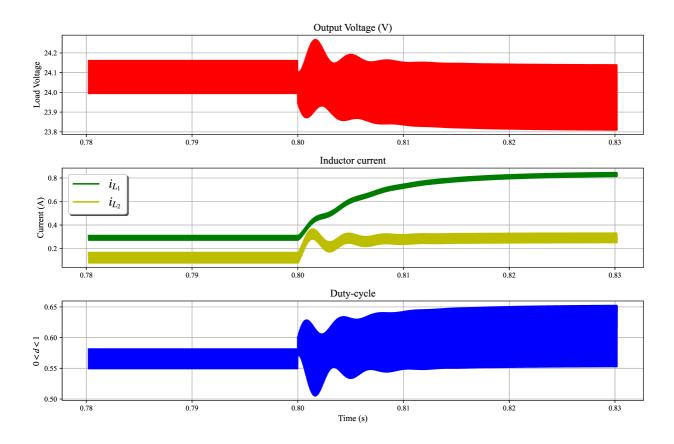


Fig. 7. Simulation results for PI controller and desired output xref = 24 V

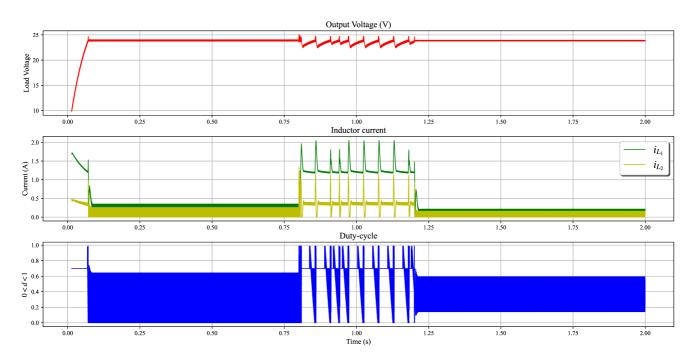


Fig. 8. Zoom in for PI controller and desired output xref = 24 V

