Topology 10: S1 ON, S2 OFF

Phase 1 Storing, Phase 2 Transferring

Circuit Behavior (ASCII Diagram)

State Matrix A₁₀ (9×9) - CORRECTED

Input Matrix B₁₀ and CPL Term

```
B10 = [1/L1; 1/L2; 0; 0; 0; 0; 0; 0; 0]; f_CPL = [0; 0; 0; 0; 0; 0; 0; -P/(CO·vCO)] (nonlinear CPL load term)
```

Key Correction: Row 8 shows iC3 = iL1 (capacitor receives current from L1 as it discharges). Row 9 shows both L1 and L6 contribute to output current: dvC0/dt = (iL1 + iL6 - P/vC0)/C0.

Physical Meaning: Phase 1 continues storing (L2, C1, L5 same as Topology 11). Phase 2 transfers energy: L1 discharges through C3→L6→D7 to output. Both L1 and L6 currents contribute to charging C0 while supplying the CPL load.