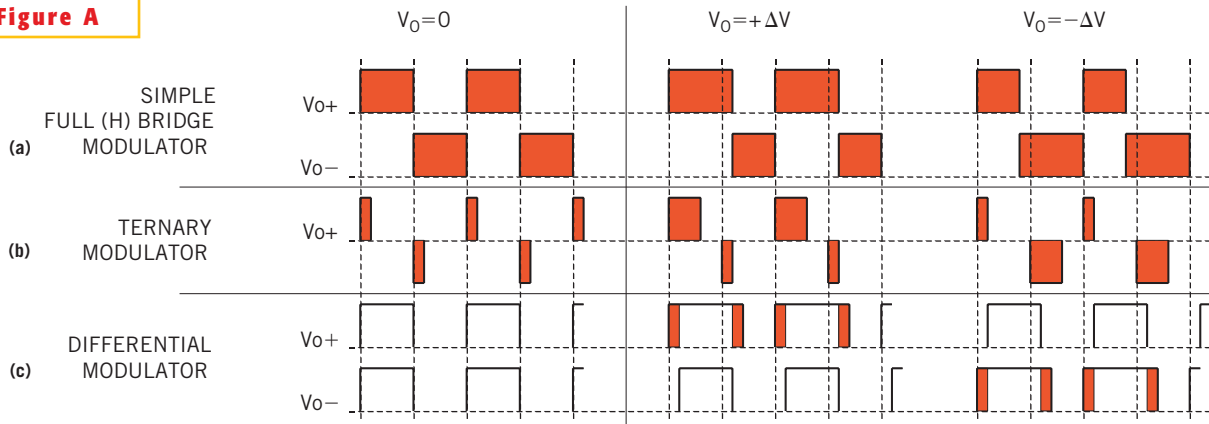


Figure A



The basic PWM switches current into and out of the reconstruction filter, engendering non-negligible I^2R losses (a). Apogee Technology's damped ternary modulator eliminates much of the waste but does so in the context of a bipolar power supply (b). A differential modulator elim-