

Schade negative feedback or not?

1. RH84 amplifier - revision 2

The negative feedback path consists of:

The signal source: V1 plate in parallel with R3.

The negative feedback: Rfb, is DC coupled from V2 plate to the signal source V1 plate || R3.

The junction of V1 plate || R3, with Rfb: is AC coupled to the grid stopper, R6 to the control grid of V2.

It is a series path from V2 plate to the signal source, and a series path from the signal source back to V2 control grid.

2. "Beam Power Tubes*!" By O. H. Schade

Page 41, Figure 33:

The plate of the output tube is series connected to the negative feedback resistor, R2 to a capacitor, C, to the bottom of the signal source (secondary). This signal source will be connected in Series to the rest of the negative feedback path.

Note: there also is a Parallel path of the negative feedback through R1 to ground.

The bottom of the secondary is connected to the top of the secondary (windings); and a capacitor is connected across that secondary. The secondary, and the capacitor is the signal source.

The top of the secondary is DC coupled to the control grid of the output tube.

That is a series path from the output tube plate through the signal source, and back to the output tube control grid.

3. The feedback is in series with the signal on the Schade circuit, and is in Parallel with the signal on the RH84.

The series paths themselves, from plate back to control grid, are only slightly different, which probably explains why the term Schade negative feedback has been applied to amplifiers such as the RH84.