

These formulas are exactly the same as those given in (47) and (48) for numerically positive k , except that k is everywhere replaced by $-k$. For the same magnitudes of k , (54), (55) are numerically identical with (47), (48); hence, we can use (51) and (52) in figuring impedance levels for both cases, provided we use $|k|$ in both cases.

There remain the correction impedances near the band edges. The correction required near the upper band edge is primarily resistive and is found by considering z_1 in (33b) as $u \rightarrow 0$. The correction required near the lower band edge is primarily reactive and proportional to z_2 in (34c) as $u \rightarrow \infty$. These impedances are, respectively,

$$z_1 = \frac{R}{\rho^{-k} - 1} - j \frac{R_u}{\rho^{1-k} - 1} \quad (34d)$$

$$z_2 = \frac{R}{u^2 \rho^{2+k} - 1} - j \frac{R}{u \rho^{1+k} - 1}. \quad (33c)$$

Except for the replacement of the inductive frequency dependence (ju, u^2) by a capacitive one ($-j/u, 1/u^2$),

the negative sign, here associated with k makes these expressions numerically equal to those obtained in (34b) and (33a), respectively for inductive impedances with the given $|k|$. Accordingly, the discussion of the band edge correction impedances is the same for any given $|k|$, except for the exchange of the roles of upper and lower band edges with the sign of k .

ACKNOWLEDGMENT

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Correction

J. M. Rollett, author of "Stability and Power-Gain Invariants of Linear Twoports," which appeared on pp. 29-32 of the March, 1962, issue of these TRANSACTIONS, has called the following to the attention of the *Editor*:

- 1) On page 30, left-hand column, line 14 from the bottom, "isomorphous" should read "isomorphic."
- 2) On page 30, left-hand column, line 7 from the bottom, and subsequently: the group of transformations introduced here turns out to be a subgroup of a larger group, which has only recently been discovered, and will be discussed in a future paper.
- 3) In footnote 13, line 3, " K " should read " k ."
- 4) On page 31, left-hand column, line 3 from the bottom, "load" should be amended to "terminating."
- 5) On page 32, right-hand column, line 3 from the top, "immittances looking in" should be amended to "total port immittances."
- 6) In the final paragraph, before the Acknowledgment, G_{TP}, G_{TR}, G_T should all read the same, G_T .