

Structured Electronic Design

Selection of the loop gain reference

Two-step design

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First design step: design of ideal transfer:

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Load quantity sensing

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Feedback network with reciprocal transfer

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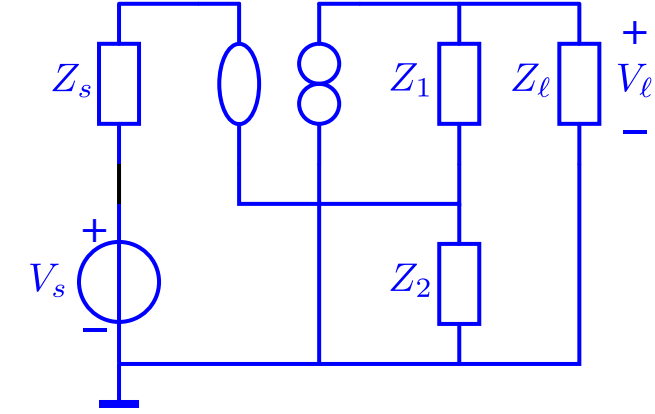
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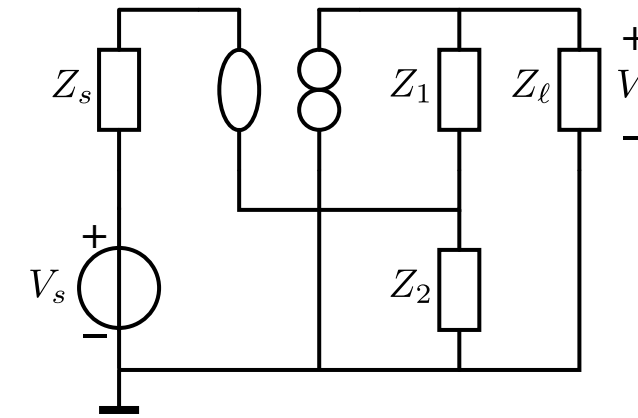
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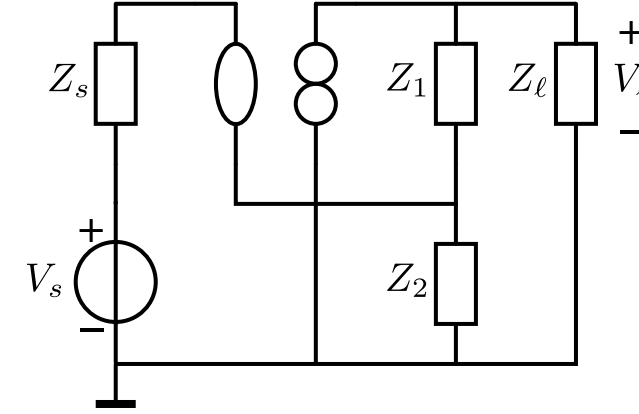


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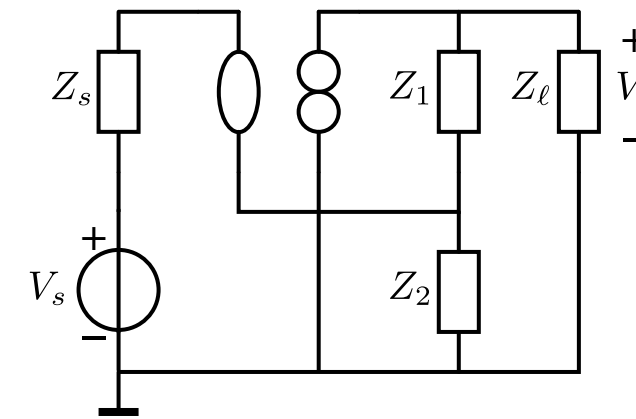
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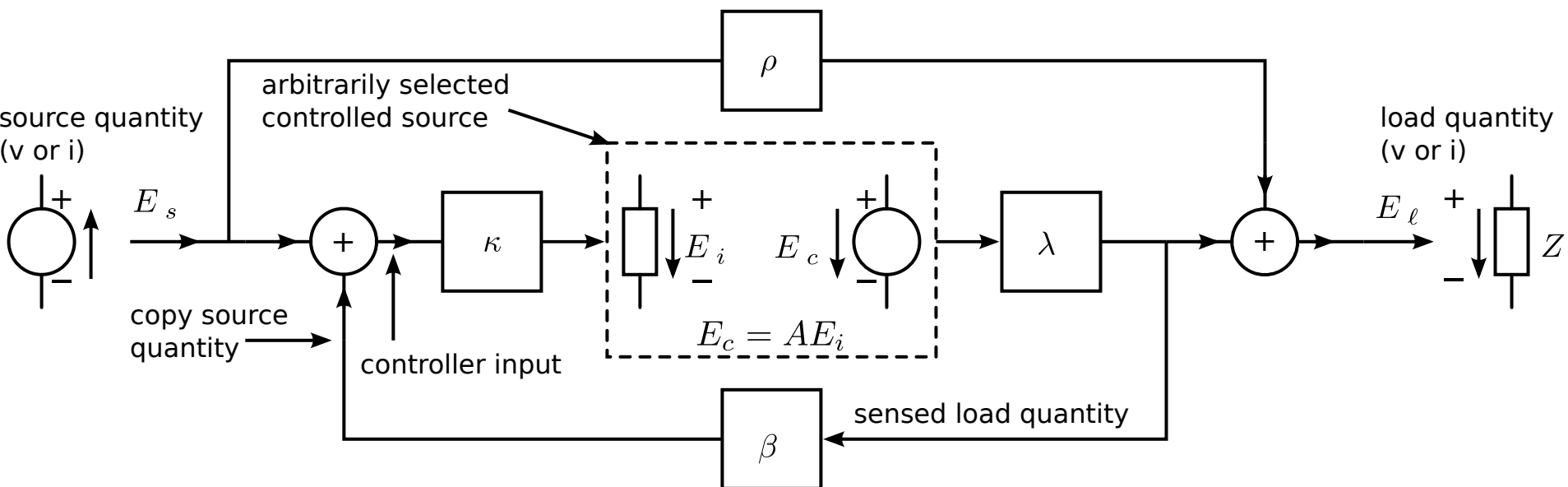
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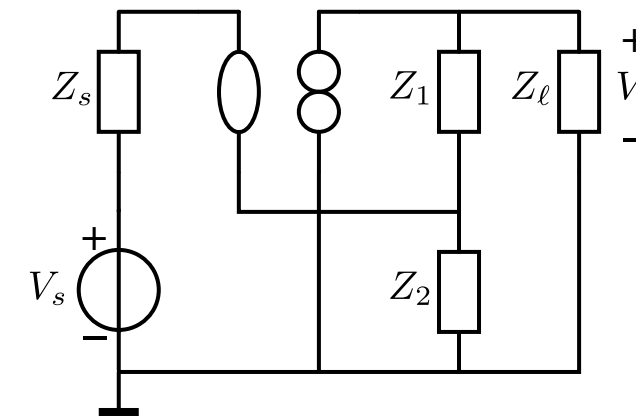
Generalized model of network with feedback:



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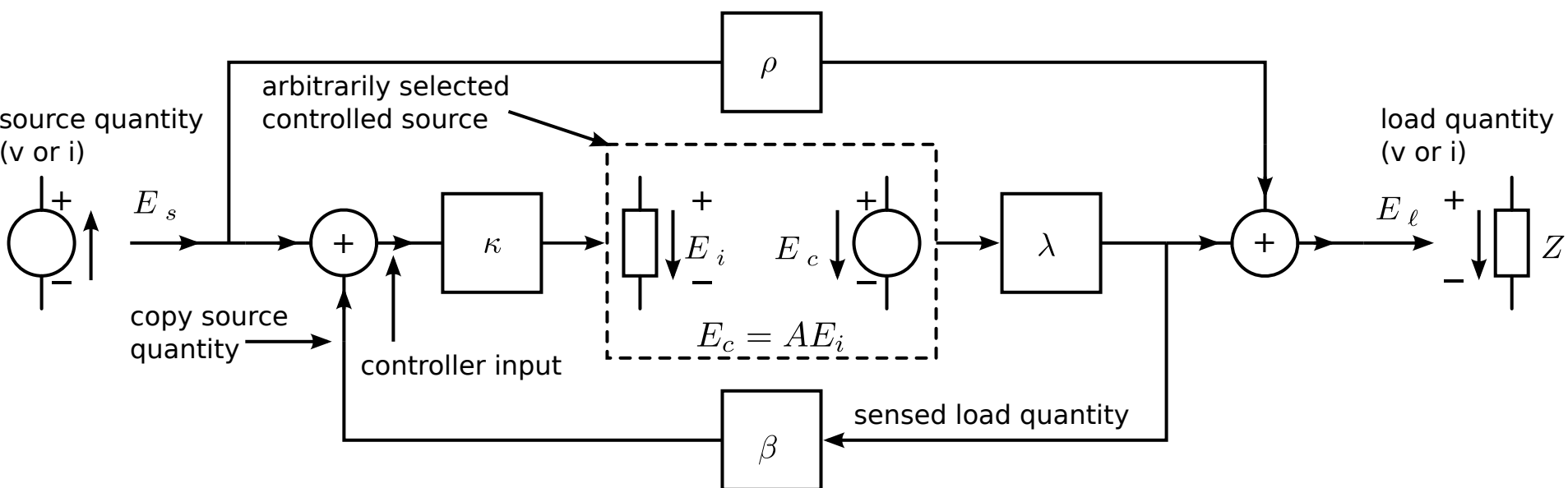
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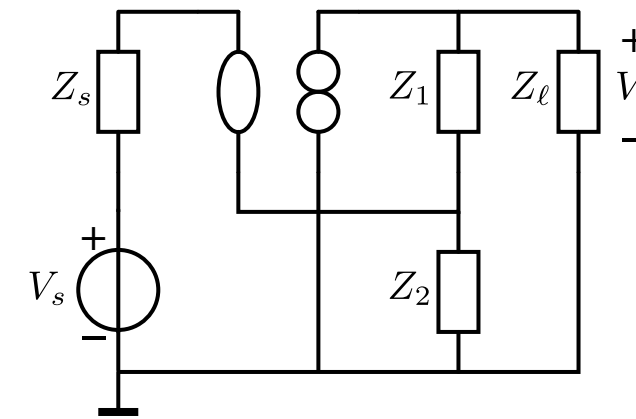


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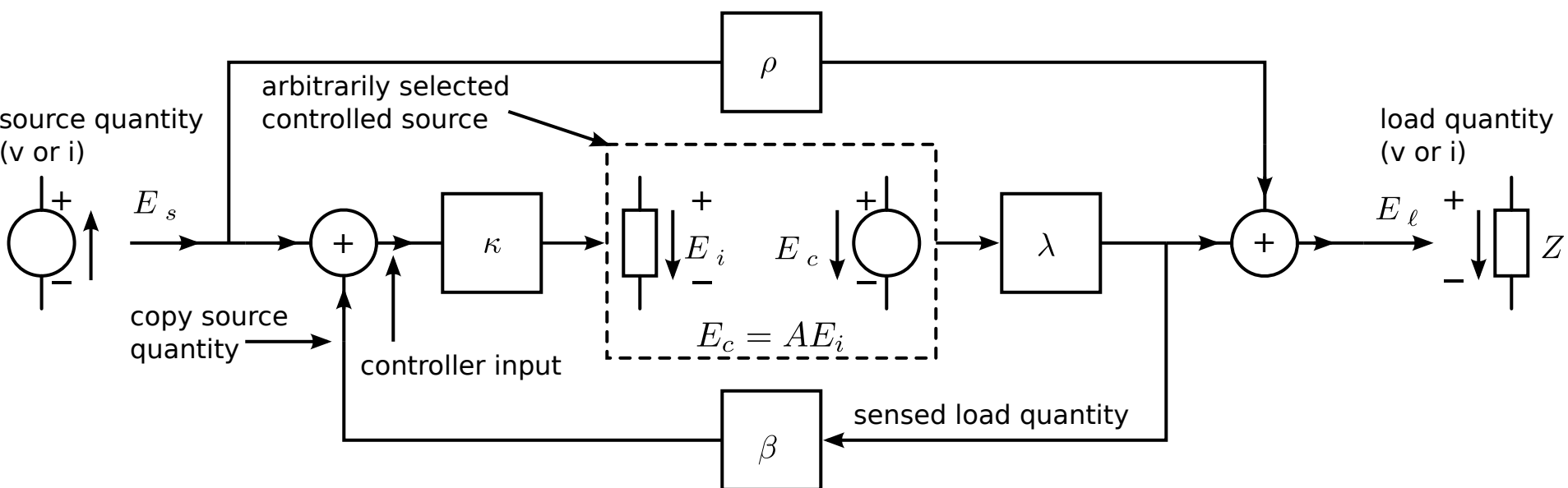
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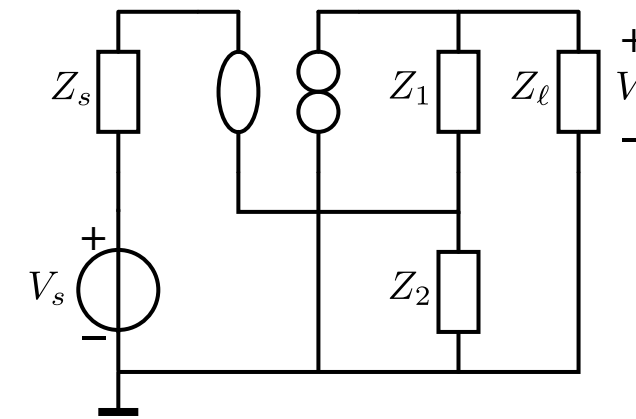
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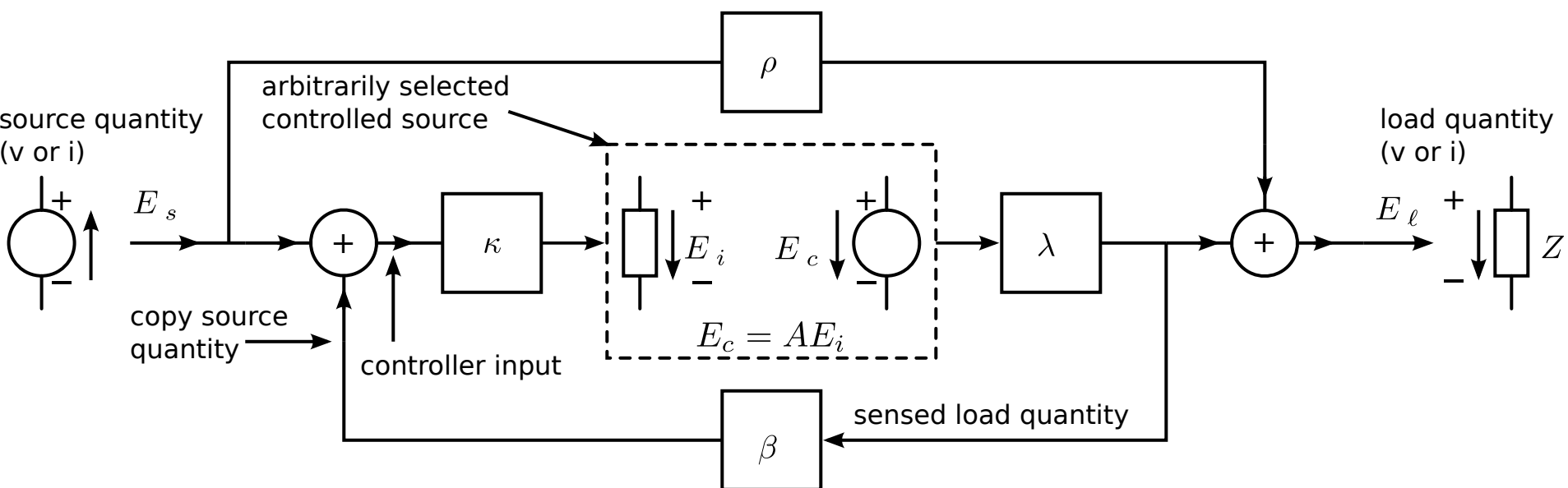
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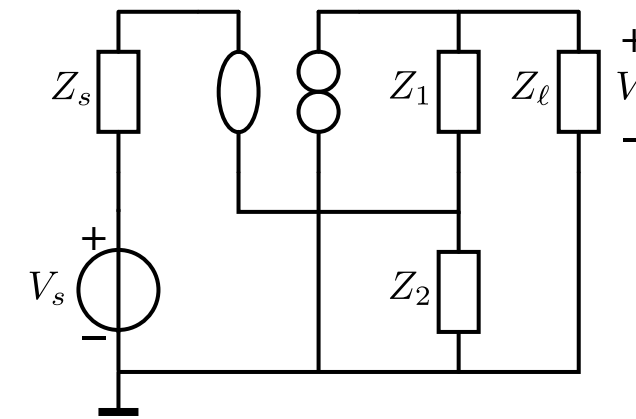
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Two-step design if:

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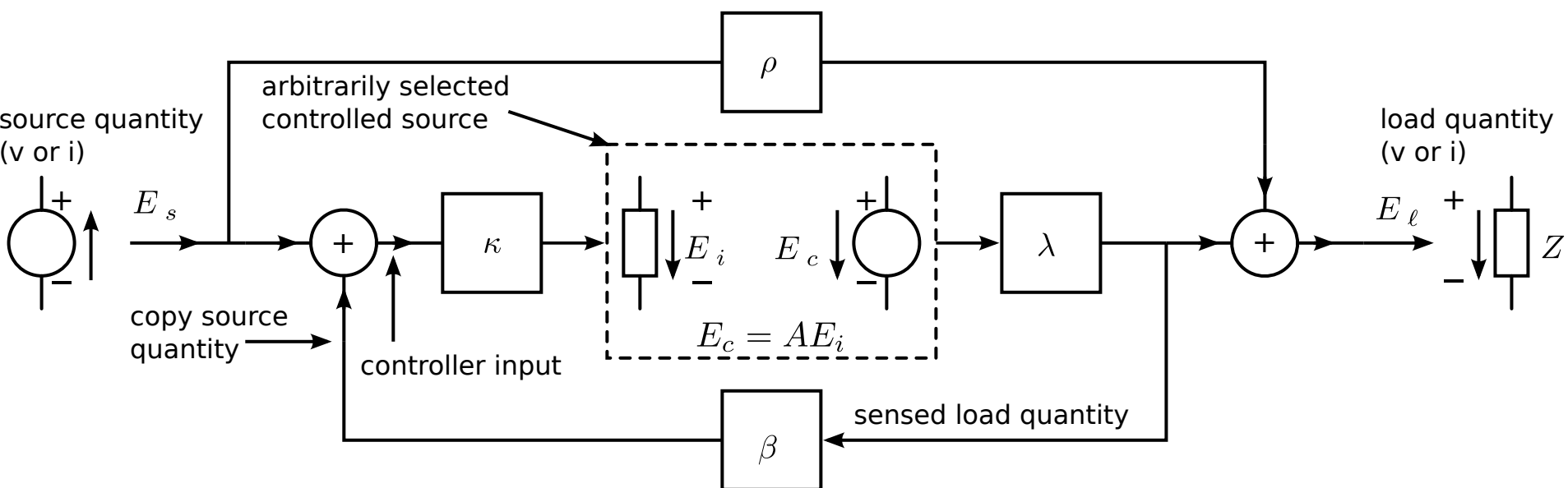
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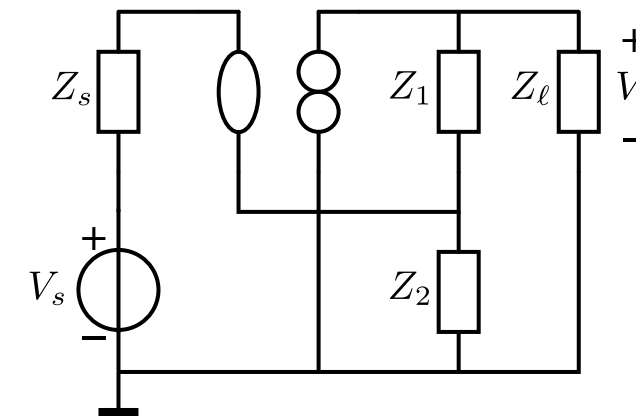
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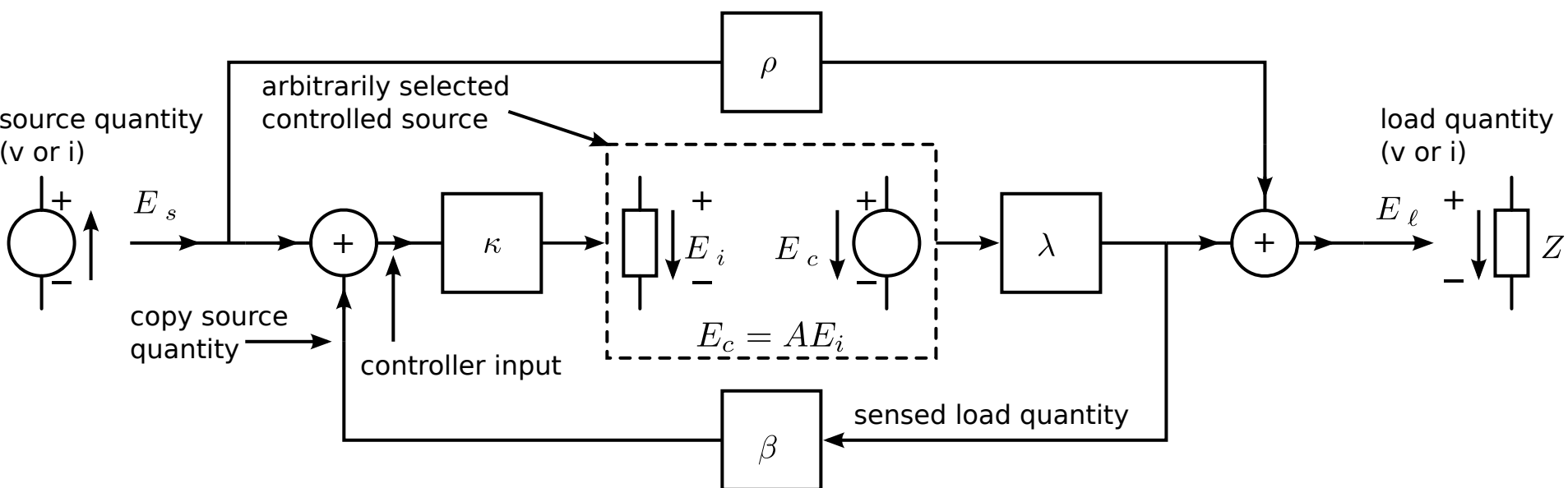
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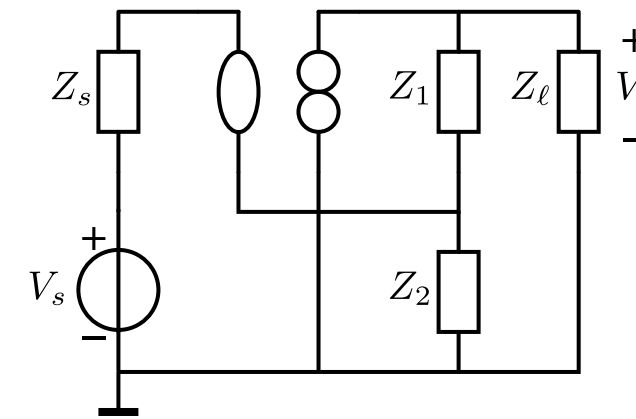
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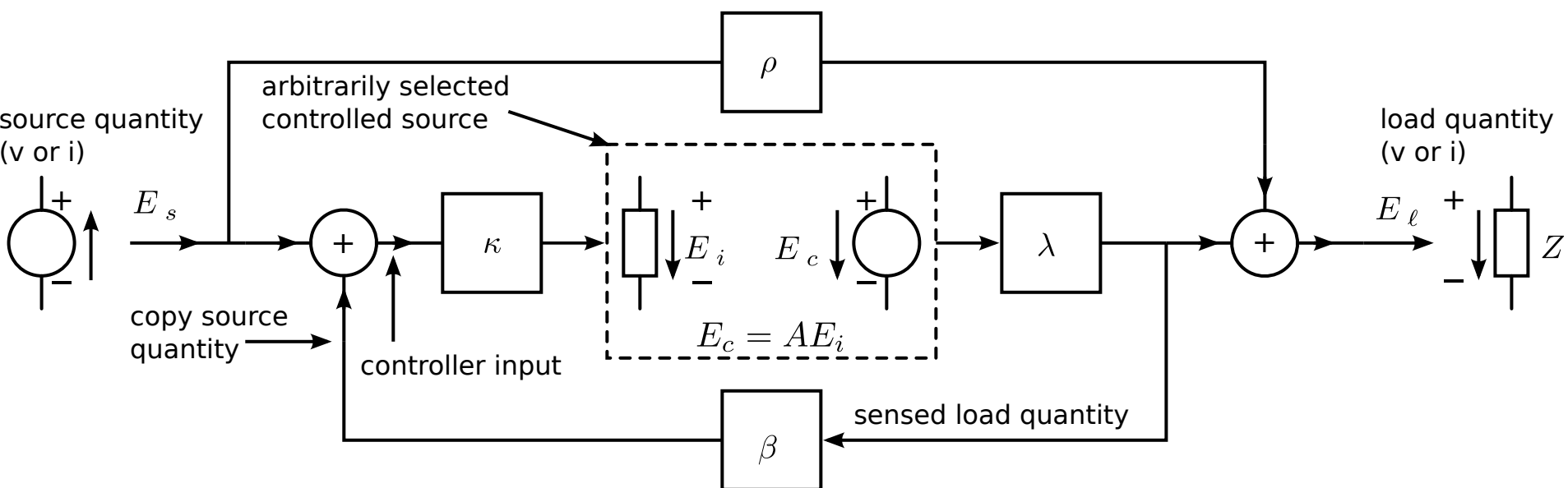
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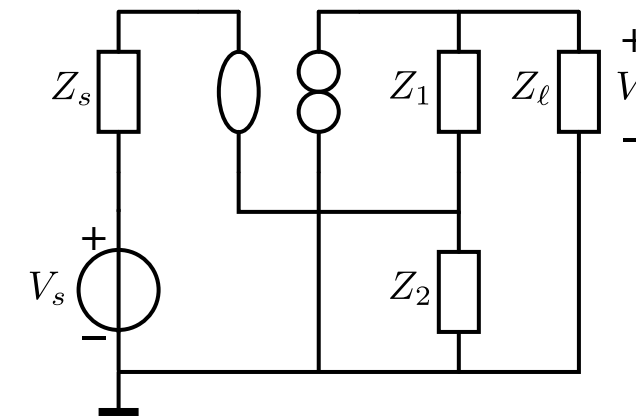
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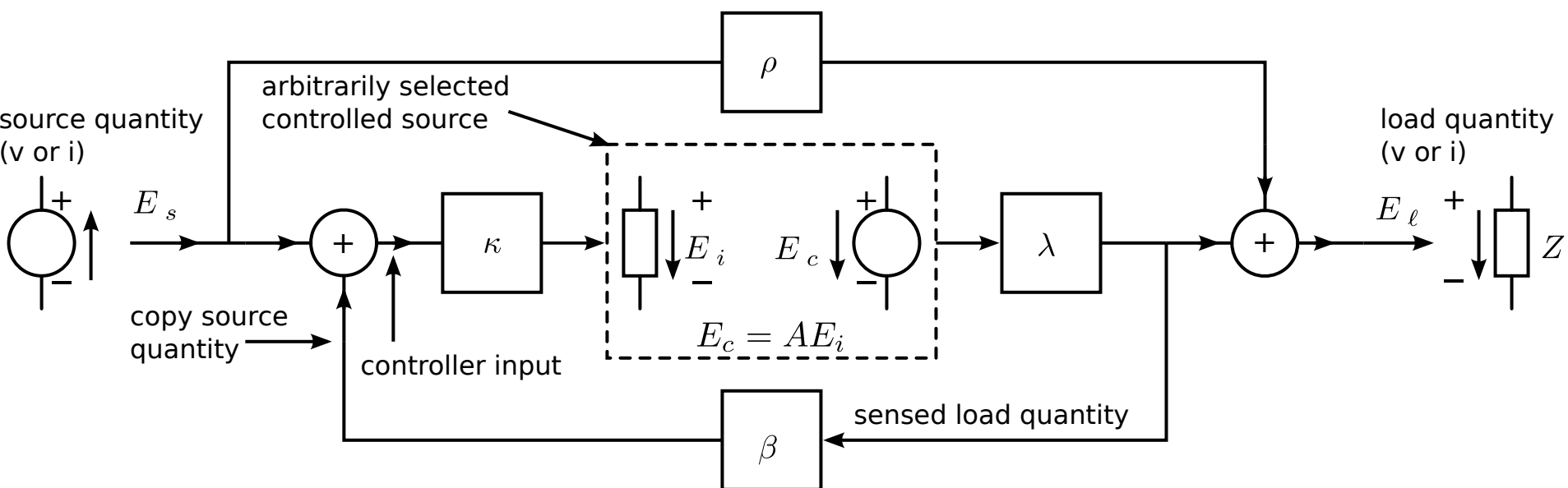
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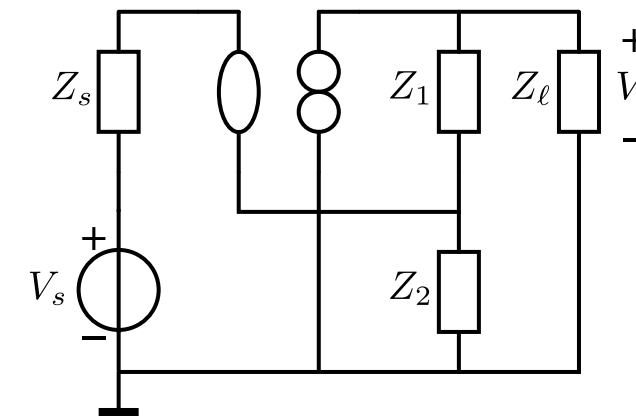
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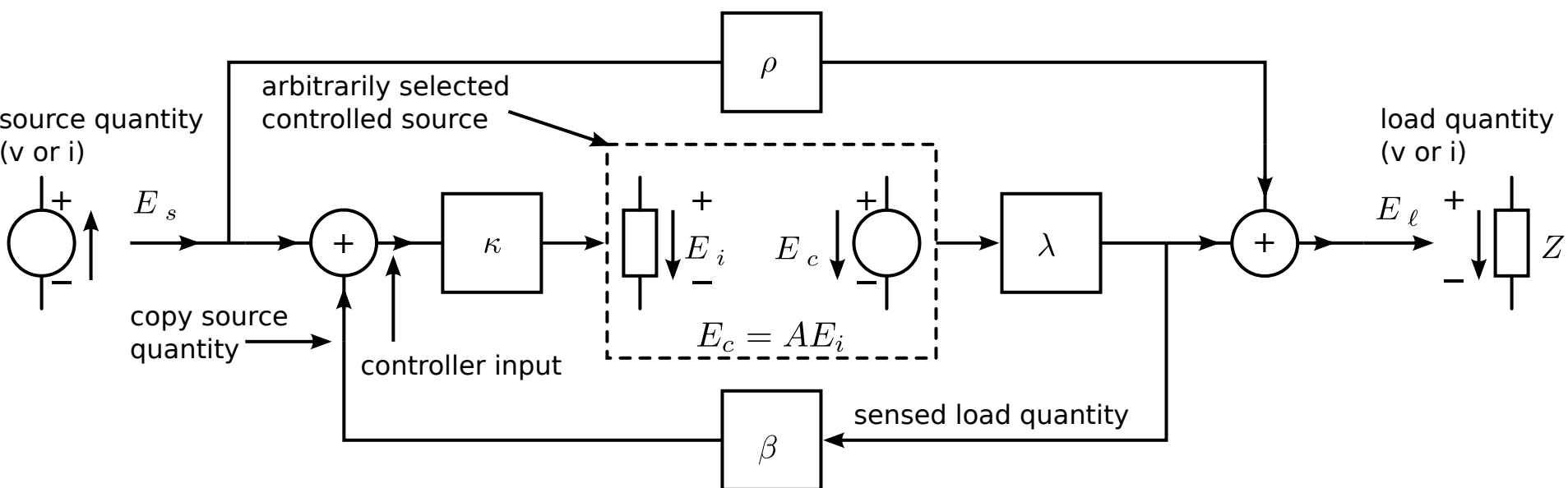
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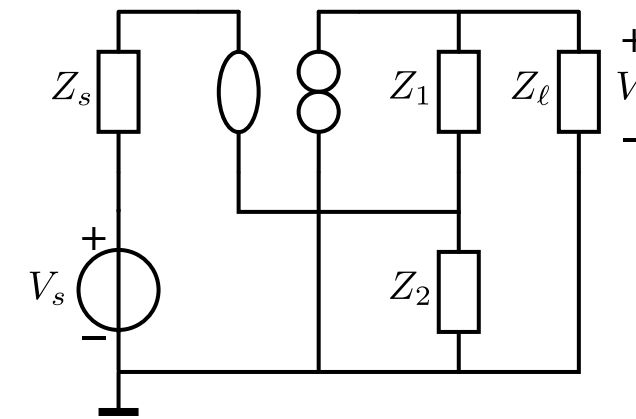
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if the controller behaves as a nullor in cases
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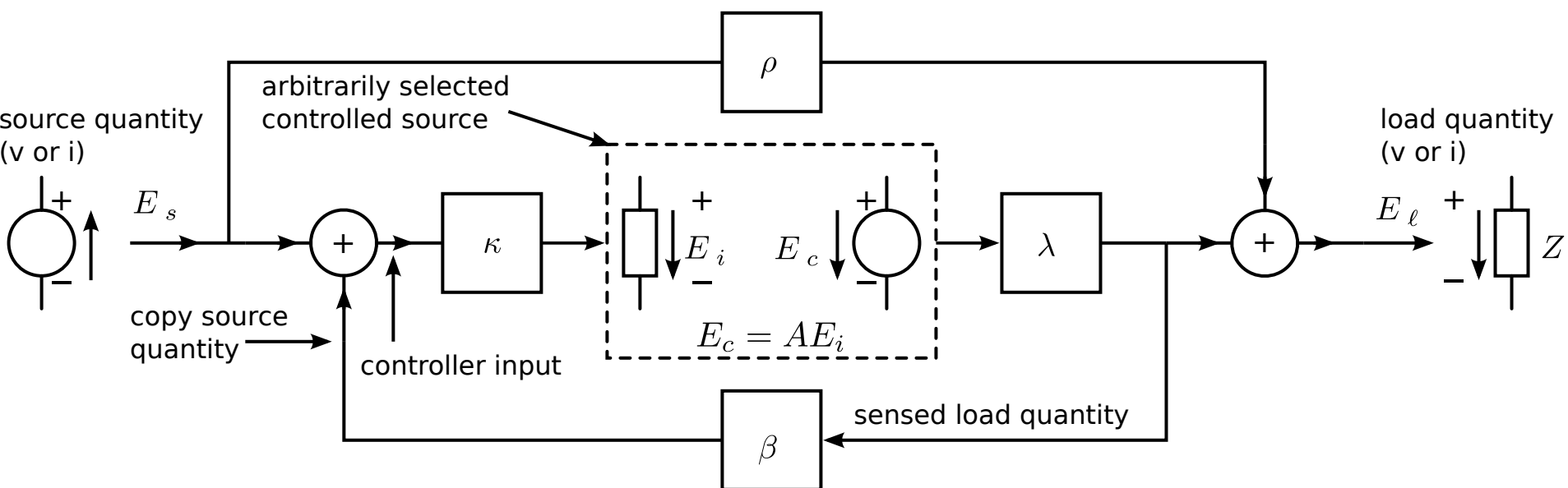
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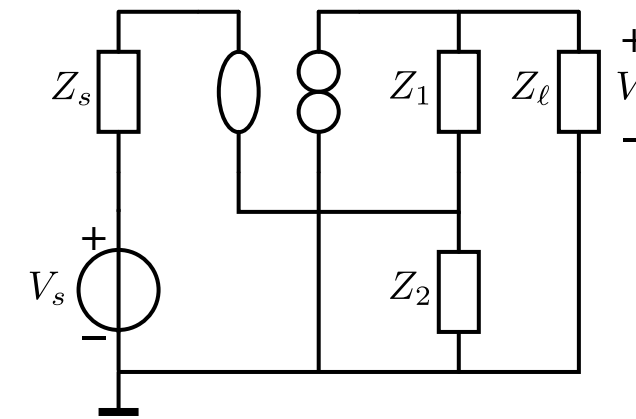
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See example 10.3

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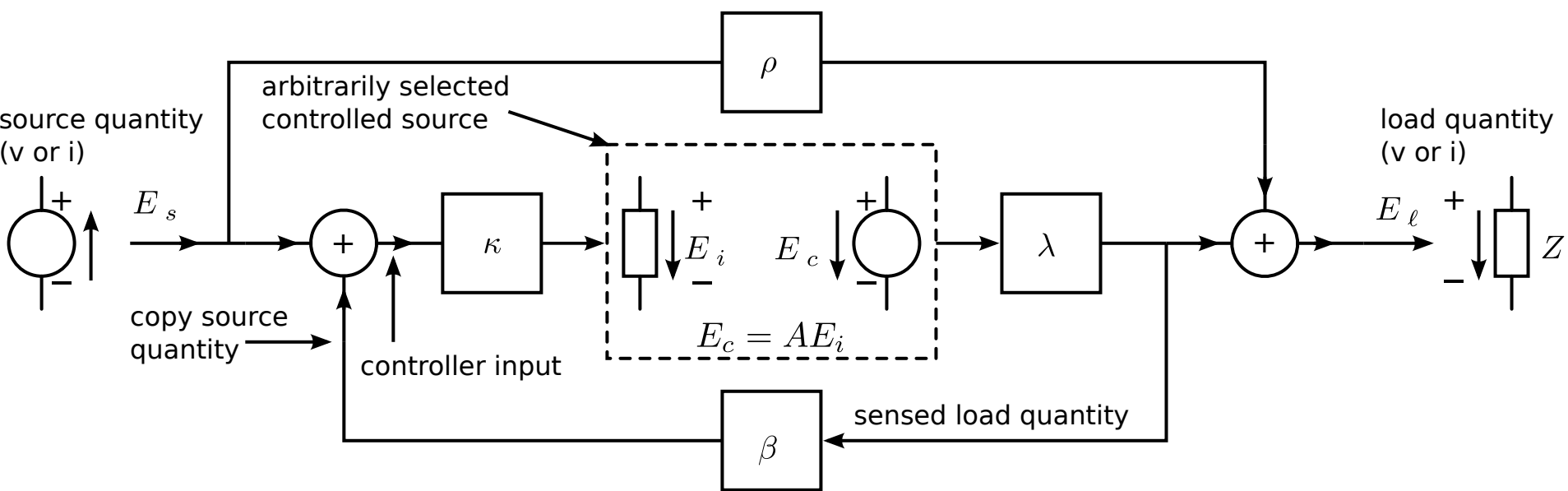
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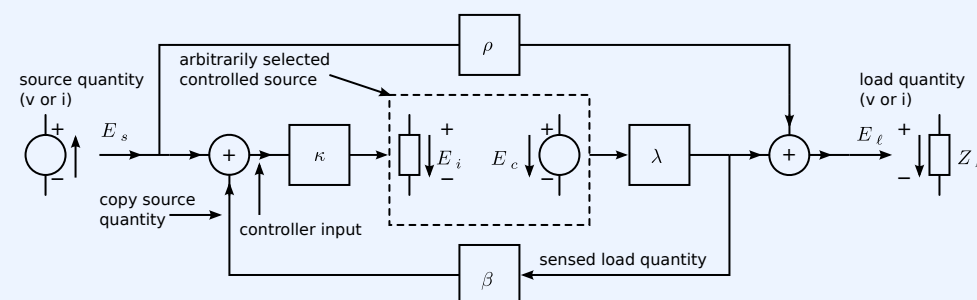
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