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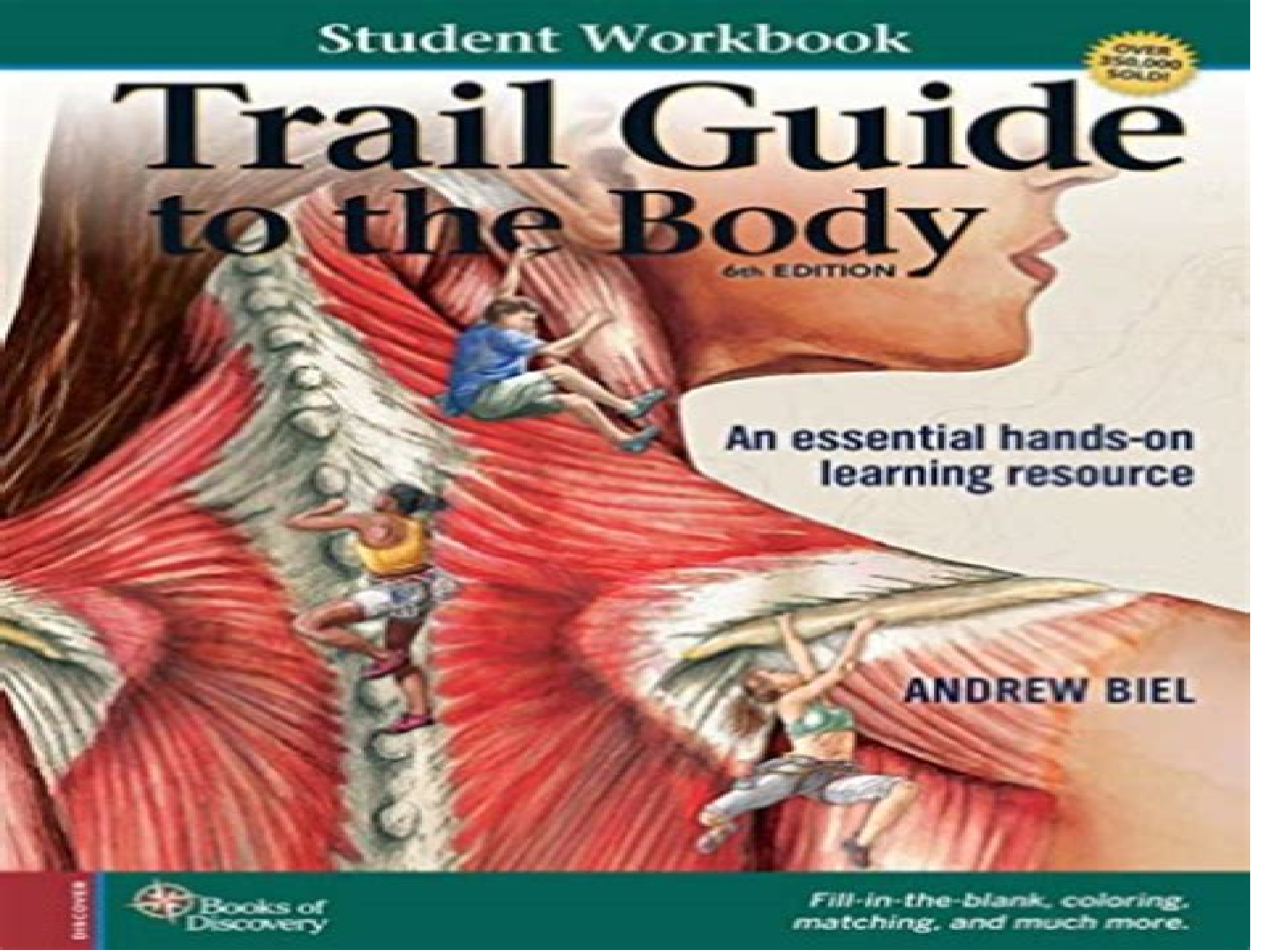
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figure 2 simulink phase domain model with the simulink model we can easily simulate noise nonlinearities and the kinds of effects seen in real devices for example the effects of any mismatch between the up current and the down current in the charge pump similarly the simulink model shows us how phase noise is affected by spurs

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