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*Several methods for numerical integration are also discussed, with a particular emphasis on Gaussian quadrature. Further on, the chapter*

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*sometimes needs to rely on approximate methods to obtain useable answers. There are many problems which simply do not have analytical solutions, or those whose*

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*exact solution is beyond our current  
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*recent. A classic book [170] on the topic changed names between editions, adopting the “numerical analysis” title in a later edition [171]. The origins of the part of*

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*mathematics we now call analysis  
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