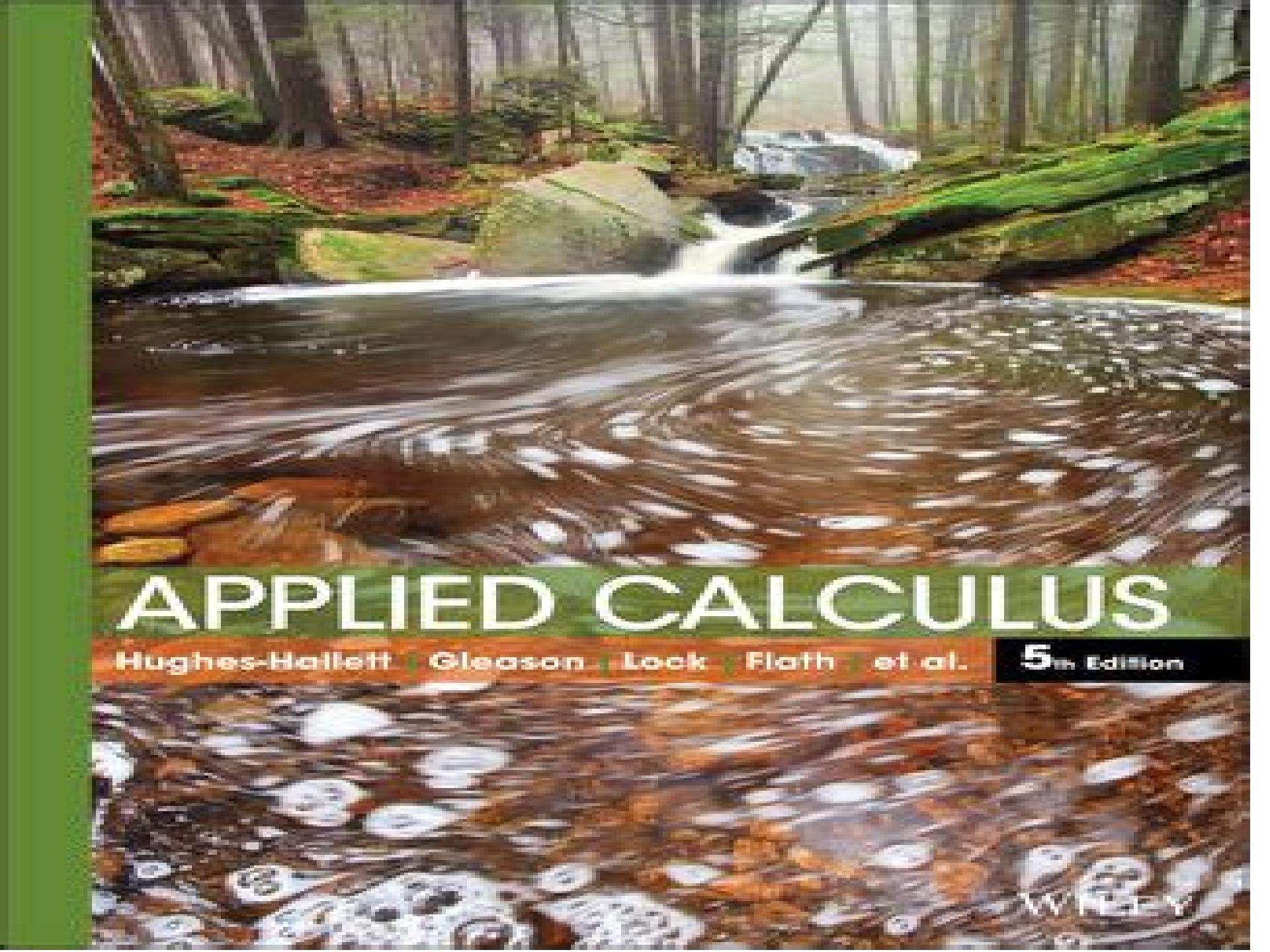


The background of the book cover is a detailed photograph of a forest stream. In the upper half, a small waterfall cascades over mossy rocks. The water flows into a pool in the foreground, where numerous ripples and reflections are visible. The surrounding forest floor is covered with fallen leaves in shades of red, orange, and brown. Several large logs, heavily covered in green moss, lie on the right side of the stream. Tall, thin trees are visible in the background, their trunks slightly out of focus. A solid green vertical bar runs along the left edge of the cover.

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elementary and quite direct to comprehend and apply while others are complex in nature and require thoughtful deep contemplation Many topics discussed in the chapter do not appear in any of the standard textbooks and this provides users an opportunity to consider a more general set of interesting systems that can be modelled For example the book investigates the evolution of a toy universe discusses why alternate futures exists in classical physics constructs approximate solutions to the famous Thomas Fermi equation using only algebra and elementary calculus and examines the importance of truly nonlinear and oscillating systems Features Introduces defines and illustrates the concept of dynamic consistency as the foundation of modelling Can be used as the basis of an upper level undergraduate course on general procedures for mathematical modelling using differential equations Discusses the issue of dimensional analysis and continually demonstrates its value for both the construction and analysis of mathematical modelling

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- 5 Highlight importance of units in measurement
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