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The second section describes functional versions of traditional methods such principal components analysis and linear modelling, and also mentions purely functional approaches that involve working with and estimating differential equations in the functional data analysis process.

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In a nutshell, they use the techniques of functional analysis (the field of mathematics that deals with spaces of functions and operators) to extend the techniques of multivariate statistics to situations where the data are functional. Silverman and Ramsay present several very well motivated examples that clearly demonstrate the utility of their techniques.

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