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Figure 3–1. Original acid-base axes, projected on the PC1-PC2 subspaces for data sets AZRbe (left) and OLVGbe (right). The placement of the original acid-base axes is different as a result of different covariances in the original distributions.

Figure 3–2. The angle  between the projected original pH-axis and the PC1-axis in the PC1-PC2 subspace of data set AZRbe.

Figure 3–3. Intersection of a PC1-PC2 subspace with a 95% univariate reference cube. Arrows point into the direction of increasing values.

Figure 3–4. The proposed chart for pH, PaCO2 and a[], as built from the data in the ELIab data set.

Figure 3–5. The proposed chart for pH, PaCO2 and BE as built from the data in the ELIbe data set. The classical acid-base classification from Error: Reference source not found are plotted in (dotted lines).

Figure 3–6. The ELIbe chart with the new vector classification scheme plotted in (dotted lines).