Figure 5.3 is available in colour for the readers of the print copy:

Figure 5.3 Triangular plot showing an alternative way of displaying the phase composition in the Cu$_2$Se-ZnSe-SnSe$_2$ pseudo-ternary system, based on the explicit application of the lever rule to CZTSe, Cu$_2$Se (black), SnSe$_2$ (italic type), ZnSe (bold type) and Cu$_2$SnSe$_3$ (underlined). The dashed lines represent the pseudobinary joints (tie lines) Cu$_2$Se-CZTSe (black), SnSe$_2$-CZTSe (grey), ZnSe-CZTSe (dotted lines) and Cu$_2$SnSe$_3$-CZTSe (dot–dash lines). Samples with composition falling on these joints are biphasic with CZTSe + one secondary phase, and the mole fraction can be read on the correspondingly coloured scale (solid lines are a guide to the eye). Samples with composition falling in each of the four triangles defined by the dashed lines are triphasic. These are respectively: CZTSe + Cu$_2$Se + ZnSe (a), CZTSe + Cu$_2$Se + Cu$_2$SnSe$_3$ (b), CZTSe + Cu$_2$SnSe$_3$ + SnSe$_2$ (c), and CZTSe + SnSe$_2$ + ZnSe (d). Note that the occurrence of SnSe$_2$ secondary phase depends strongly on the partial pressure of Se present during the synthesis and the cooling stages (see text). (Graph adapted with kind permission from Rabie Djemour.)