

Figure 1 Sugarcane harvester systems

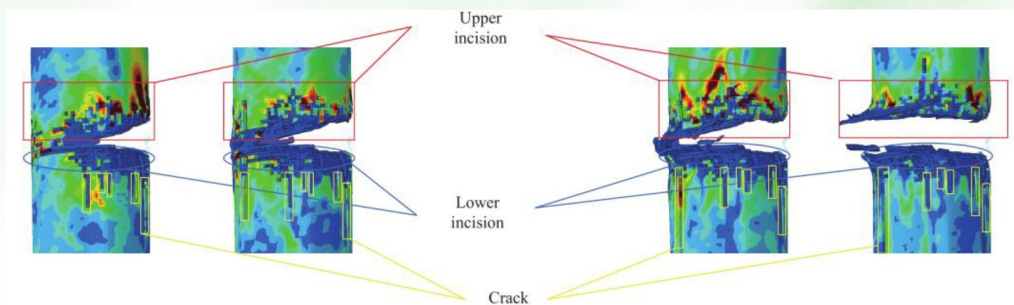


Figure 17 Analysis of the damaging effect of single-knife cutting

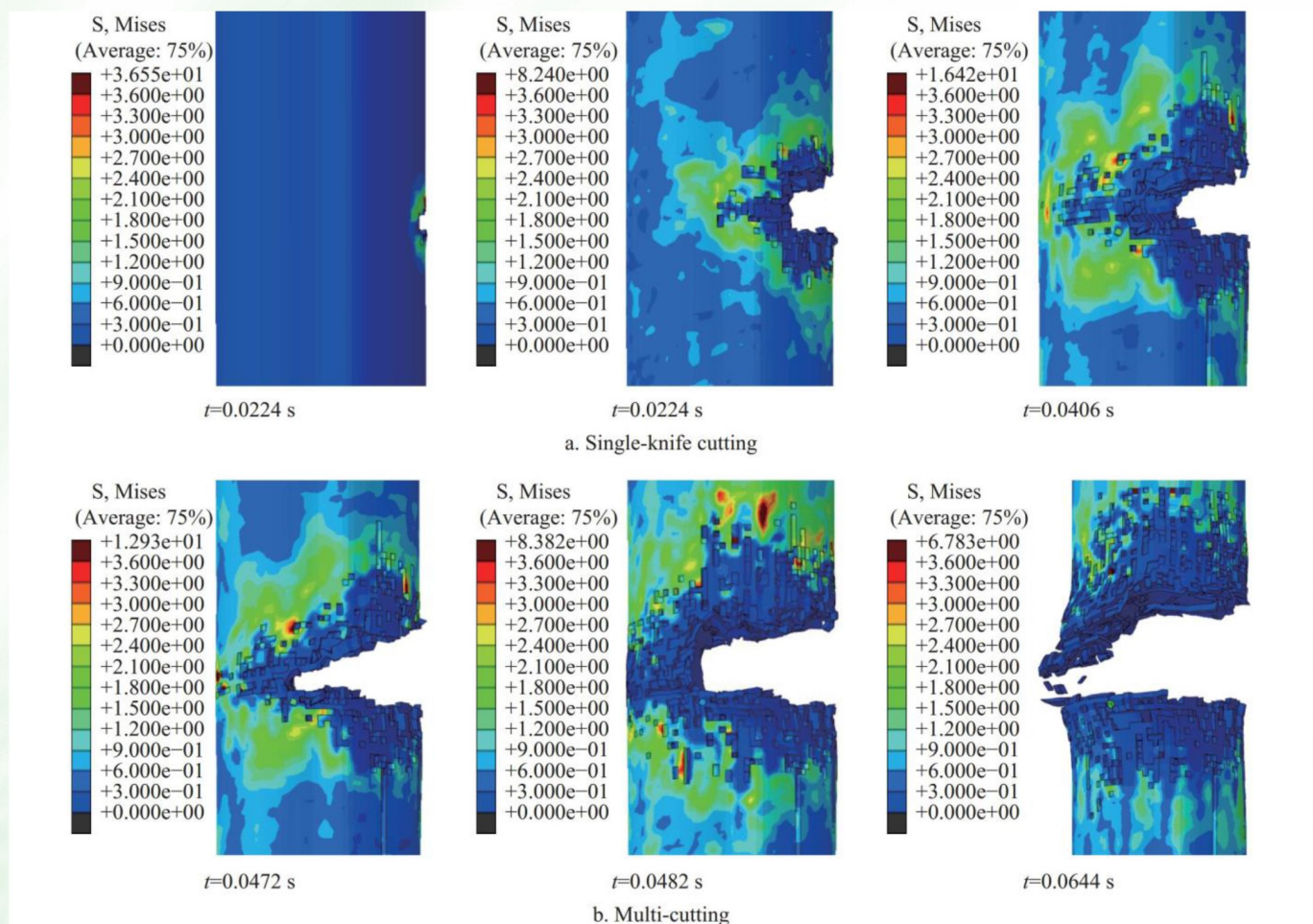


Figure 18 Changes in stem incision for different cutting methods

Cai Z L, Sun C J, Zhang Y Z, Shi R Y, Zhang J Y, Zhang H L, et al. Fast detection of the early decay in oranges using visible-LED structured-illumination imaging combined with spiral phase transform and feature-based classification model. *Int J Agric & Biol Eng*, 2024; 17(3): 185–192.

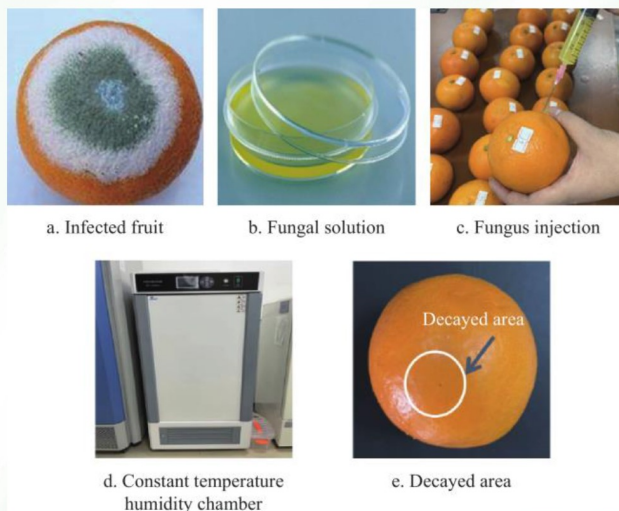


Figure 1 Preparation of orange samples infected by *Penicillium digitatum*

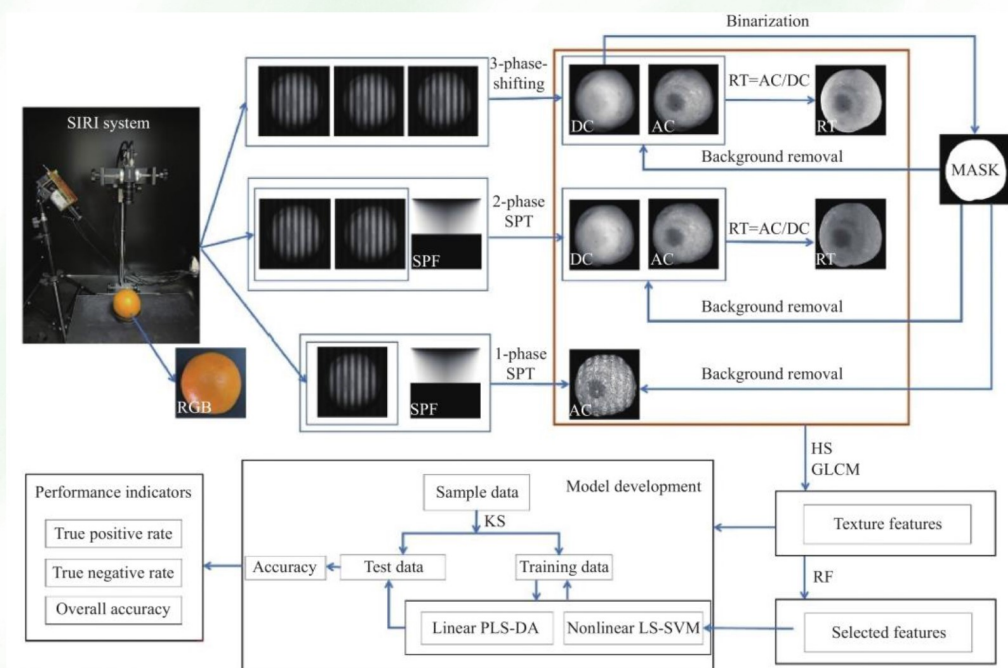


Figure 3 Detailed flow chart for detection of decayed oranges

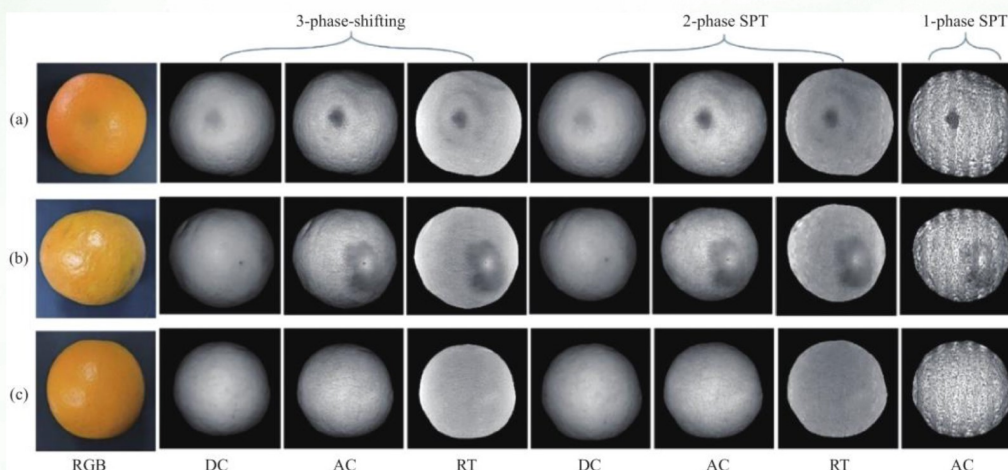


Figure 4 RGB images of typical samples, the corresponding direct component (DC) and alternating component (AC) images obtained by three demodulation methods, and the ratio image (RT)