



The main topics of the book are dealing with supercooling, crystallization, melting and mass transfers within emulsions (simple, mixed or multiple) and nodules used in thermal energy storage tanks. Solid ripening, composition ripening, gas hydrate formation, are particularly evidenced by experiments, essentially Calorimetry (DSC), and described by diffusive models. The dispersed materials are essentially either pure (water or organic compounds) or in solution (water + electrolytes or two organic substances). Taking into account the composition of the emulsion, the scanning rate of the temperature and the important thermal effects due to the latent heat of transformation, heat transfers models precise the spatial kinetics of crystallizations or meltings.

<http://ebooks.benthamscience.com/book/9781681081304/>

Pr Danièle CLAUSSE UTC Compiègne (France)
Pr Jean Pierre DUMAS Université Pau (France)