This part of the book is on the enrichment of a base send/receive distributed message-passing system with high-level communication abstractions. Chapter 12 focuses on abstractions that ensure specific order properties on message delivery. The most important of such communication abstractions is causal message delivery (also called causal order). Chapter 13 is on the rendezvous communication abstraction and logically instantaneous communication (also called synchronous communication).

These communication abstractions reduce the asynchrony of the system and consequently can facilitate the design of distributed applications. Their aim is to hide “basic machinery” to users and offer them high-level communication operations so that they can concentrate only on the essence of the problem they have to solve.