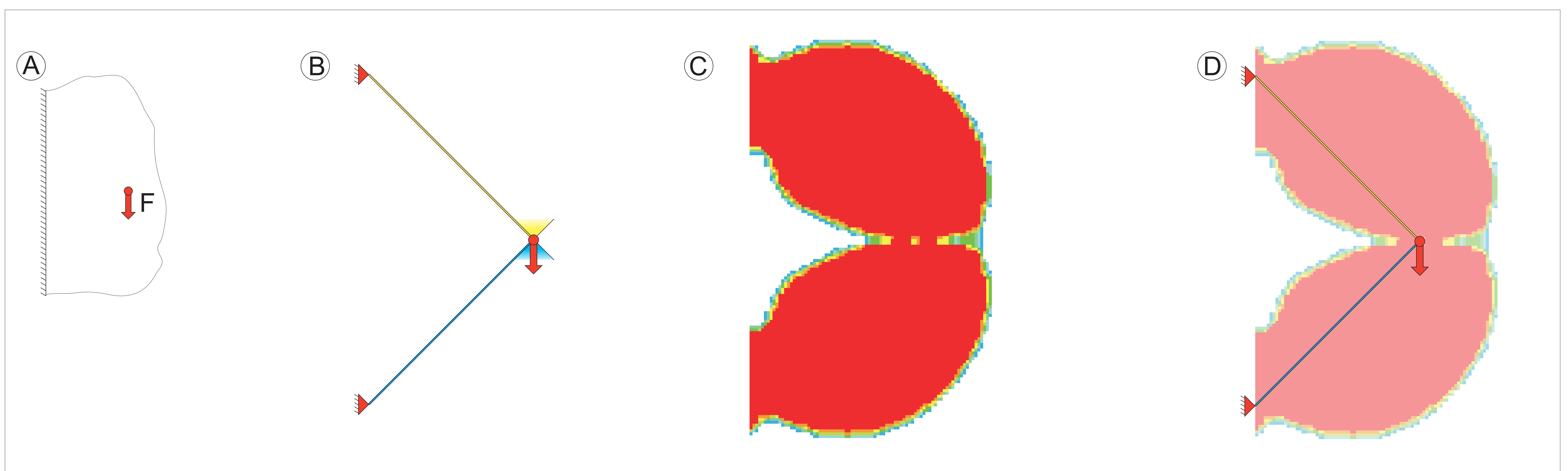
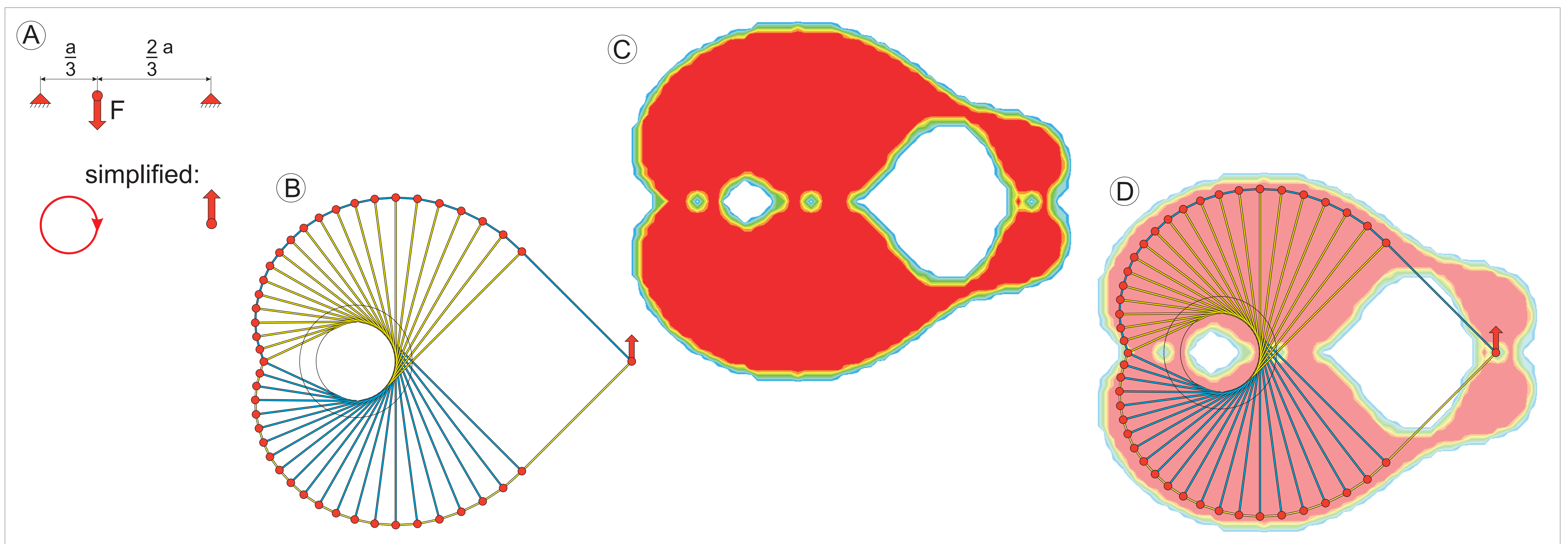
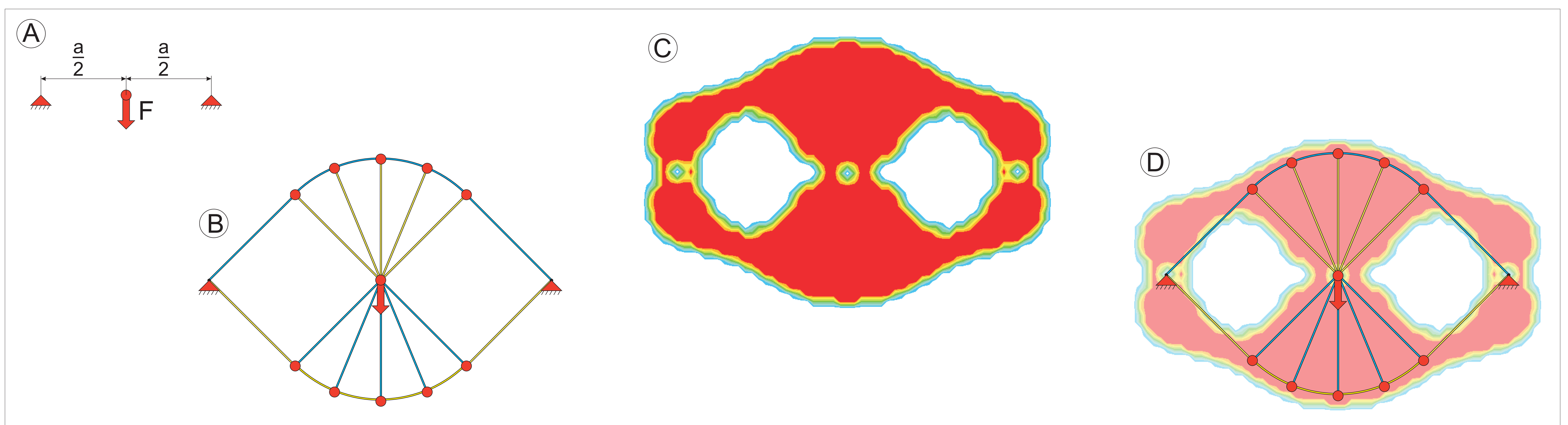


Comparing Plastic Zones with Force-Cone Structures

C. Mattheck, I. Tesari

With the Finite-Element-Method different load cases in plates with elasto-plastic material behaviour have been analyzed and their plastified zones compared with Force-Cone structures.

Ⓐ Load case (in plates) Ⓑ Force-Cone structure Ⓒ plain strain plastic zone Ⓓ overlay of Force-Cone structure and plastic zone



The Force-Cone Method distinguishes between highly loaded areas, where also yielding first occurs, and less loaded areas.