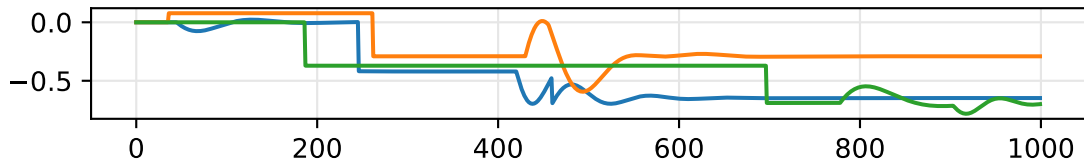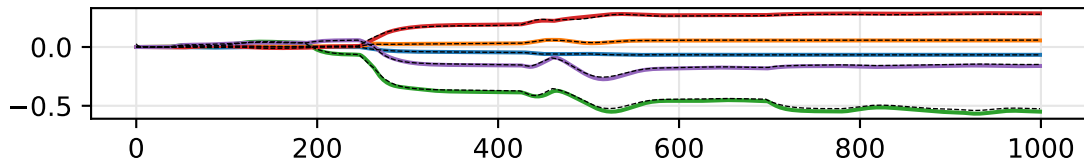test case: loadcase_5