

[Ahmed, N. U.](#)

Optimal control of infinite dimensional systems governed by functional differential inclusions. (English) [Zbl 0824.49007](#)

Discuss. Math., Differ. Incl. 15, No. 1, 75-94 (1995).

Summary: We consider the problem of optimal control for a class of systems governed by functional differential inclusions (FDI) on Banach space. We prove the existence of solutions of the FDI under mild assumptions. We also present an existence result on optimal controls.

MSC:

- [49J24](#) Optimal control problems with differential inclusions (existence) (MSC2000)
- [49J27](#) Existence theories for problems in abstract spaces
- [34H05](#) Control problems involving ordinary differential equations
- [34A60](#) Ordinary differential inclusions
- [93C25](#) Control/observation systems in abstract spaces

Cited in 1 Review Cited in 7 Documents

Keywords:

[relaxed controls](#); [optimal control](#); [functional differential inclusions](#); [Banach space](#); [existence result](#)