-> SX-S 430

2003-2004 AB

M 411 – Nonlinear Functional Analysis

T I : Various forms of continuity - Geometry in normed spaces and apping, Nemytskii, Hammerstein and Urysohn operators.
pter 1 of the textbook.

T II : Gateaux and Frechet derivative, Properties of derivative, Taylor's Ir verse function theorem and Implicit function theorem, Subdifferential x functions.
pter 2 of the textbook

T III : Banch's contraction principle and its generalization, Nonexpansive , Fixed point theorems of Brouwer and Schauder.
ions 4.1 to 4.3 of Chapter 4 of the textbook.

T IV : Fixed point theorems for multifunctions, common fixed point , Sequences of contractions, generalized contractions and fixed points.
ions 4.4 to 4.6 of Chapter 4 of the textbook.

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e topics in Nonlinear functional analysis Mohan C. Joshi and Ramendra Wiley Eastern limited - Hyderabad, 1985.