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The present thesis contains seven chapters. Some of the results of Chapters 2, 3 and 4, in its original form are being published in the Bulletin of the Australian Mathematical Society, Volume 72 (2005) and were presented at the 70th Conference of the Indian Mathematical Society in December 2004. Major results of Chapter 6 are accepted for its publication in the ‘Applied General Topology’ journal. Remaining results in the present thesis have also been communicated for possible publication in research journals.

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