

## ADDENDUM-ERRATUM WITH CORRECTIONS

I take this opportunity to sincerely apologise for my inadvertent laps in submitting the original version of the thesis with several typographical and linguistic errors as one of the lesser edited format of the manuscript which remained in the computer memory was erroneously picked up for taking printout just before the submission of the thesis.

I would also like to take this opportunity to thank the honourable Examiner for a very meticulous reading and for some illuminating comments and remarks allowing I suppose a much improved clarity in the presentation.

### *Detailed corrections entered*

#### A. Typographical/Language Corrections

p.14 Both are corrected in appropriate places.

p.16 (2.6) is corrected. Repetition around (2.7) is removed.

p.17 Indicated correction included.

Pp. 19,20 Triangle inequality corrected.

p.20, 1.6 corrected.

p.21, Proposition 1 All indicated corrections are included.

P.22 Cauchy convergence statement is a typo: correct version should be  $|x_n| = |x|$ .

p.22, 1.4,5 & p.23 the format is corrected by reordering.

p.28 1.2-5 Repetition is removed.

p.43 1.7 (below Lemma 5) this is yet another misprint being copied and pasted from older files. Corrected as  $v(x_{n+1}) = v(x_n)$  for  $n > N$ . Proof is rewritten.

p.43, 1.4 above (3.3) corrected as “can assume”.

p.44 statement of Theorem 1 is corrected as indicated.

p.48 Definition 12, quantifiers corrected.

p.49 Theorem 2 reframed as Remark 5 in p.50

p.57 below (4.9) symbol  $N$  removed in p. 59, similar corrections are entered in p.64.

p.58 Proposition 3 is corrected in p. 60

## **B. Technical Remarks and Clarifications**

p.24 definition of multiplicative group is included and Proposition 2 rewritten and corrected as indicated.

p.37. To clarify Def.5 a new Remark 1 is written with further motivation and explanation. Perhaps this will suffice.

p.38 Def.7 is tried to put in a more understandable manner.

p.39 The examiners remark is respected in Notation 1.

p.45. The choice of sequence  $y_i$  perhaps needs axiom of choice. Also (3.8) is corrected and a footnote remark is made on valuation.

p.47 a new paragraph is added at the end of p.48 to explain nontrivial limit.

p.99 Corrected as “Further, most of the fundamental equations —” with some additional remarks citing some basic equations of motion, in p.101.

