

Contents

Part I Concepts and Innovations in Soil Classification

| | |
|--|----|
| Chapter 1 | |
| Philosophies of Soil Classifications: From Is to Does..... | 3 |
| S.W. Buol | |
| Chapter 2 | |
| How Good Is Our Soil Classification? | 11 |
| R. Dudal | |
| Chapter 3 | |
| Soil Classification: Past and Present | 19 |
| Robert J. Ahrens, Thomas J. Rice, Jr., and Hari Eswaran | |
| Chapter 4 | |
| Conceptual Basis for Soil Classification: Lessons from the Past..... | 27 |
| Richard W. Arnold and Hari Eswaran | |
| Chapter 5 | |
| Soil Classification and Soil Research..... | 43 |
| Winfried E.H. Blum and Michiel C. Laker | |
| Chapter 6 | |
| Back to the Old Paradigms of Soil Classification..... | 51 |
| J. Bouma | |
| Chapter 7 | |
| Incorporating Anthropogenic Processes in Soil Classification..... | 57 |
| Ray B. Bryant and John M. Galbraith | |
| Chapter 8 | |
| Developments in Soil Chemistry and Soil Classification..... | 67 |
| Goro Uehara | |

Part II Developments in Classification Systems

| | |
|--|-----|
| Chapter 9 | |
| Demands on Soil Classification in Australia..... | 77 |
| R.W. Fitzpatrick, B. Powell, N.J. McKenzie, D.J. Maschmedt, N. Schoknecht, and D.W. Jacquier | |
| Chapter 10 | |
| Development of Soil Classification in China..... | 101 |
| Zi-tong Gong, Gan-lin Zhang, and Zhi-cheng Chen | |
| Chapter 11 | |
| The Brazilian Soil Classification System | 127 |
| Francesco Palmieri, Humberto G. dos Santos, Idarê A. Gomes, José F. Lumberras, and Mario L.D. Aglio | |

| | |
|---|-----|
| Chapter 12 | |
| The Future of the FAO Legend and the FAO/UNESCO Soil Map of the World | 147 |
| Freddy O.F. Nachtergaele | |
| Chapter 13 | |
| The Current French Approach to a Soilscales Typology | 157 |
| Marcel Jamagne and Dominique King | |
| Chapter 14 | |
| New Zealand Soil Classification—Purposes and Principles | 179 |
| A.E. Hewitt | |
| Chapter 15 | |
| Changing Concepts of Soil and Soil Classification in Russia | 187 |
| S.V. Goryachkin, V.D. Tonkonogov, M.I. Gerasimova, I.I. Lebedeva, L.L. Shishov, and V.O. Targulian | |
| Chapter 16 | |
| Advances in the South African Soil Classification System | 201 |
| Michiel C. Laker | |
| Chapter 17 | |
| Soil Taxonomy and Soil Survey | 221 |
| C.A. Ditzler, R.J. Engel, and Robert J. Ahrens | |
| Chapter 18 | |
| Classification of Soils of the Tropics: A Reassessment of Soil Taxonomy..... | 231 |
| Friedrich H. Beinroth and Hari Eswaran | |
| Chapter 19 | |
| Anticipated Developments of the World Reference Base for Soil Resources..... | 245 |
| Jozef Deckers, Paul Driessen, Freddy O.F. Nachtergaele, Otto Spaargaren, and Frank Berding | |
| Index | 257 |