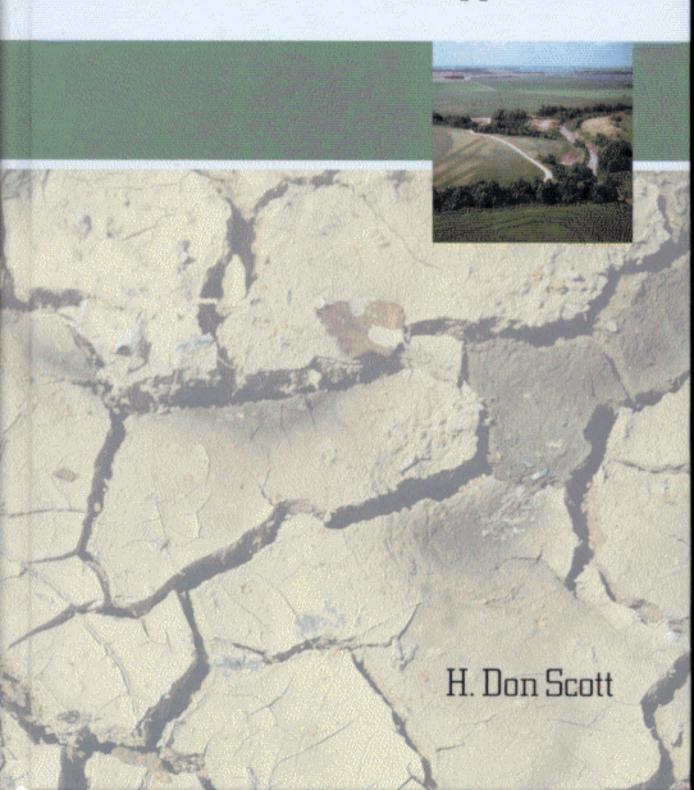
## Soil Physics Agricultural and Environmental Applications



## Contents

## Preface ix

1.	Soil	<b>Physics</b>	in J	Perspective	3
----	------	----------------	------	-------------	---

- 2. Calculations and Dimensions of Physical Quantities 12
- 3. Soil Texture 35
- 4. Soil Structure 64
- 5. Fate and Transport of Mass and Energy 88
- **6.** Soil Temperature 108
- 7. Soil Aeration 140
- **8.** Soil Water Principles 165
- **9.** Soil Water Flow 213
- 10. Soil Water Flow Processes in the Field 244
- 11. Solute Transport 282
- 12. Soil-Plant-Water Relations 322

Appendix A. Review of Geostatistics and the Variability of Soil Properties 356

Appendix B. Review of Mathematics 379

Appendix C. Review of Physics 406

Index 411