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Nota di contenuto	""Table of contents""; ""Preface""; ""1. Introduction""; ""1.1 Purpose""; ""1.2 Overall description of the system with its components""; ""2. Development""; ""2.1 The simulated events""; ""2.2 Emergence and initiation of crop development and growth""; ""2.3 Above-ground development""; ""3. Shoot growth""; ""3.1 Leaf dynamics""; ""3.2 Radiation interception""; ""3.3 Shoot biomass growth""; ""3.4 Stress indices""; ""3.5 Partitioning of biomass in organs""; ""4. Yield formation""; ""4.1 For determinate growing plants""; ""4.2 For indeterminate growing plants""; ""4.3 Quality"" ""5. Root growth""""5.1 Root front growth""; ""5.2 Growth in root density""; ""6. Management and crop environment""; ""6.1 Effects on plants""; ""6.2 Soil water supply""; ""6.3 Net nitrogen supply""; ""6.4 Physical soil surface conditions""; ""6.5 Soil structure modification""; ""6.6 Microclimate""; ""7. Water Balance""; ""7.1 Soil evaporation""; ""7.2 Crop water requirements""; ""7.3 Plant transpiration and derived stresses""; ""8. Nitrogen transformations""; ""8.1 Mineralization of soil organic matter""; ""8.2 Mineralization of organic residues""; ""8.3 Nitrification"" ""8.4 Ammonia volatilization""""8.5 Denitrification""; ""8.6 Nitrogen

uptake by plants and plant nitrogen status""; ""8.7 Nitrogen fixation by legumes""; ""9. Transfers of heat, water and nitrate""; ""9.1 Soil temperature""; ""9.2 Transfers of water and nitrate in free drained soil""; ""9.3 Case of artificially drained soil""; ""9.4 Integrated calculations of soil status""; ""10. Cropping systems""; ""10.1 The notion of a Unit of SiMulation (USM)""; ""10.2 Long term simulations""; ""10.3 Intercropping""; ""11. Involvement of the user in the model operation""; ""11.1 Driving options""
""11.2 Simulation options""""""11.3 Formalisation options""; ""11.4 Parameterization""; ""References""; ""Figure list""; ""Table list""; ""Definition of symbols""; ""Index of parameters and variables""

Sommario/riassunto

This Print On Demand book will be sent within 3 weeks (metropolitan France) and in a separate package if you order another paperback book. Cet ouvrage en impression a la demande sera envoye sous 3 semaines environ (France metropolitaine) et dans un colis separe en cas de commande avec un autre livre papier. Le modele de culture STICS est developpe a l'INRA depuis 1996 en collaboration avec d'autres centres de recherche et instituts techniques. Ce modele synthetise, illustre et concretise une part importante des connaissances agronomiques francaises, comme un point de vue sur la parcelle et le fonctionnement des systemes de culture. Les formalisations du modele STICS presentees dans cet ouvrage peuvent etre considerees comme des references en agrophysiologie. L'ouvrage est structure selon la facon dont le modele concoit le fonctionnement du systeme sol-culture. Chaque chapitre est consacre a un ensemble important de fonctions telles que le demarrage en croissance, la mise en place des composantes du rendement, la consommation en eau, la transformation de la matiere organique etc. L'un des chapitres traite de la problematique des systemes de culture et des simulations a long terme. Le dernier chapitre aborde l'implication de l'utilisateur en termes de choix d'options et de parametrisation. Cet ouvrage est principalement destine aux scientifiques qui utilisent le modele STICS mais il interessera egalement les agronomes, les modelisateurs de cultures, etudiants et techniciens a la recherche de formalisations elementaires du fonctionnement du systeme culture-sol.