Hill-type models:

1. Zajac, F. E., 1989, “Muscle and Tendon: Properties, Models, Scaling, and Application to Biomechanics and Motor Control,” Crit. Rev. Biomed. Eng., 17(4), pp. 359–411. Available at: <http://europepmc.org/abstract/MED/2676342>
2. Epstein, M., and Herzog, W., 1998, Theoretical Models of Skeletal Muscle: Biological and Mathematical Considerations, Wiley, New York.
3. Winters, J. M., and Stark, L., 1987, “Muscle Models: What Is Gained and What Is Lost by Varying Model Complexity,” Biol. Cybern., 55(6), pp. 403–420.

Muscle-driven simulations that use Hill-type model:

1. Zajac, F. E., Neptune, R. R., and Kautz, S. A., 2002, “Biomechanics and Muscle Coordination of Human Walking: Part I: Introduction to Concepts, Power Transfer, Dynamics and Simulations,” Gait Posture, 16(3), pp. 215–232.
2. Zajac, F. E., Neptune, R. R., and Kautz, S. A., 2003, “Biomechanics and Muscle Coordination of Human Walking: Part II: Lessons From Dynamical Simulations and Clinical Implications,” Gait Posture, 17(1), pp. 1–17.
3. Anderson, F. C., and Pandy, M. G., 2001, “Dynamic Optimization of Human Walking,” ASME J. Biomech. Eng., 123(5), pp. 381–390.
4. Ackermann, M., and van den Bogert, A. J., 2010, “Optimality Principles for Model-Based Prediction of Human Gait,” J. Biomech., 43(6), pp. 1055–1060.
5. Arnold, E. M., and Delp, S. L., 2011, “Fibre Operating Lengths of Human Lower Limb Muscles During Walking,” Philos. T. R. Soc. B, 366(1570), pp. 1530–1539.
6. Liu, M. Q., Anderson, F. C., Pandy, M. G., and Delp, S. L., 2006, “Muscles That Support the Body Also Modulate Forward Progression During Walking,” J. Biomech., 39(14), pp. 2623–2630.
7. Hamner, S. R., Seth, A., and Delp, S. L., 2010, “Muscle Contributions to Propulsion and Support During Running,” J. Biomech., 43(14), pp. 2709–2716.
8. Neptune, R. R., and Sasaki, K., 2005, “Ankle Plantar Flexor Force Production Is an Important Determinant of the Preferred Walk-to-Run Transition Speed,” J. Exp. Biol., 208(5), pp. 799–808.
9. Selbie, W. S., and Caldwell, G. E., 1996, “A Simulation Study of Vertical Jumping From Different Starting Postures,” J. Biomech., 29(9), pp. 1137–1146.
10. Neptune, R. R., and Hull, M. L., 1999, “A Theoretical Analysis of Preferred Pedaling Rate Selection in Endurance Cycling,” J. Biomech., 32(4), pp. 409–415.
11. Neptune, R. R., and van den Bogert, A. J., 1998, “Standard Mechanical Energy Analyses Do Not Correlate With Muscle Work in Cycling,” J. Biomech., 31(3), pp. 239–245.
12. van der Krogt, M. M., Delp, S. L., and Schwartz, M. H., 2012, “How Robust Is Human Gait to Muscle Weakness?,” Gait Posture, 36(1), pp. 113–119.
13. Steele, K. M., Seth, A., Hicks, J. L., Schwartz, M. S., and Delp, S. L., 2010, “Muscle Contributions to Support and Progression During Single-Limb Stance in Crouch Gait,” J. Biomech., 43(11), pp. 2099–2105.
14. Crabtree, C. A., and Higginson, J. S., 2009, “Modeling Neuromuscular Effects of Ankle Foot Orthoses (AFOs) in Computer Simulations of Gait,” Gait Posture, 29(1), pp. 65–70.
15. Hicks, J. L., Schwartz, M. H., Arnold, A. S., and Delp, S. L., 2008, “Crouched Postures Reduce the Capacity of Muscles to Extend the Hip and Knee During the Single-Limb Stance Phase of Gait,” J. Biomech., 41(5), pp. 960–967.
16. Fregly, B. J., Reinbolt, J. A., Rooney, K. L., Mitchell, K. H., and Chmielewski, T. L., 2007, “Design of Patient-Specific Gait Modifications for Knee Osteoarthritis Rehabilitation,” IEEE Trans. Biomed. Eng., 54(9), pp. 1687–1695.
17. Riener, R., and Fuhr, T., 1998, “Patient-Driven Control of FES-Supported Standing Up: A Simulation Study,” IEEE Trans. Rehab. Eng., 6(2), pp. 113–124.
18. Delp, S. L., Loan, J. P., Hoy, M. G., Zajac, F. E., Topp, E. L., and Rosen, J. M., 1990, “An Interactive Graphics-Based Model of the Lower Extremity to Study Orthopaedic Surgical Procedures,” IEEE Trans. Biomed. Eng., 37(8), pp. 757–767.
19. Rasmussen, J., Tørholm, S., and de Zee, M., 2009, “Computational Analysis of the Influence of Seat Pan Inclination and Friction on Muscle Activity and Spinal Joint Forces,” Int. J. Ind. Ergonom., 39(1), pp. 52–57.