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Surface Design in Additive Manufacturing Medical Implants

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Abstract

Bone–implant stability can be improved by fabricating porous titanium implant surfaces using additive manufacturing interfacial bonded, a thorough understanding of the biomechanical properties of porous (lattice) implants is essential. favorable physiological environment for bone ingrowth and strengthens the bond between the implant and bone.

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echni e. e e die ed haFE b- de ing ana i can be ed in e ga ic echanica beha i and ha i a e iab e i a n e h d f e ing - ca e echanica i e ha cann be ed b adi na in i i a n e e i en

In de i e b ne ing h ca abi , hi d de e a n e ce e ha a be e ib e f AM b ne-i an in face a ica n . In de c ea a b and-ne ce, FE b- de ing ana i a ed c ehend he echanica beha i f he b ne-i an in face nde ic - ain. In de ca he ce f b ne ing h, ani a i an ade h ne Dia nd ce e e in e d in he a e a fe f abbi f an eigh ee e i d. T c n he FE b- de ing ana i e in facia en i e b nded e ngh e be een a i ce and b ne e e e ca ied

e fac ha n ain a ed a he b ne e de ing inde in he FE b- de ana i a he d ' n d a bac . Since ain ene g and he indica e e ece n ed, he ana ed e e e n ed a a efe ence f end . In he in i ani a e e i en , he e a n ecia c n e he abbi ' ac e (e en di ec n ing e) a e ge . e FE b- de ing ana i a ed ad and b nda c ndi n , i a n and ani a e e i en e cann be di ec a ida ed. Beca e he en i e b nded e ngh e can di ec indica e he n a b nded ce e ngh and he nding b ne a e e in eg a n, i a n ed nde and he echanica e f ance f he ce