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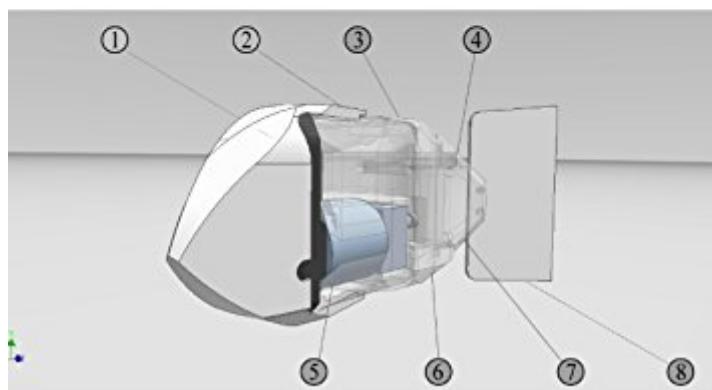
Robotic Fish iSplash-II: Realizing Fast Carangiform Swimming To Outperform A Real Fish

Robotic Fish iSplash-II

Realizing Fast Carangiform Swimming to Outperform a Real Fish

11.6BL/s (i.e. 3.7m/s)

By Richard James Clapham



www.isplash-robotics.com



Synopsis

Robotic Fish iSplash-II Realizing Fast Carangiform Swimming to Outperform a Real FishBy Richard James Clapham Abstract. This book introduces a new robotic fish, iSplash-II, capable of outperforming real Carangiform fish in terms of average maximum velocity (measured in body lengths/ second) and endurance, the duration that top speed is maintained. A new fabrication technique and mechanical drive system were developed, effectively transmitting large forces at high frequencies to obtain high-speed propulsion. The lateral and thrust forces were optimized around the center of mass, generating accurate kinematic displacements and greatly increasing the magnitude of added mass. The prototype, with a length of 32cm has significantly increased the linear swimming speed of robotic fish, achieving consistent untethered stabilized swimming speeds of 11.6BL/s (i.e. 3.7m/s), with a frequency of 20Hz. Keywords: High speed robotic fish – Carangiform swimming – Full-Body length – Swimming speed – Maximum velocity.

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Mechanical engineering and kinematics for maximum velocity robot fish. Book 3) Robotic Fish iSplash-MICRO: A 50mm Robotic Fish Generating the Maximum Velocity of Real Fish (High Speed Robotics. Mechanical engineering and kinematics for maximum velocity robot fish. Book 4) Survival Swimming: Swimming Drills to Learn and Improve on the Five Best Swimming Strokes for Survival (Survival Fitness Series Book 4) Smoking Meat: Fish Edition: Top 25 Amazing Smoked Fish Recipes (Smoked Fish Recipes, Smoked Fish Cookbook, Smoked Fish Guide, Unique Smoking Fish Recipe Book, Smoking Meat, BBQ Cookbook) Daniel Fast: 50 Plant Based, Whole Foods Daniel Fast Recipes+Daniel Fast Food List And Breakthrough Secrets (Daniel Fast, Daniel Plan, Daniel Plan Cookbook, Whole Foods, Daniel Fast Cookbook) Smoking Meat: Fish Edition. : Delicious Smoking Fish Recipes for Everyone (Book 2, Smoked Fish Recipes Cookbook, Smoked Fish Guide, Unique Smoking Fish Recipe Book, Smoking Meat, BBQ Cookbook) The Real Book of Real Estate: Real Experts. Real Stories. Real Life. Hawaii Real Estate Wholesaling Residential Real Estate Investor & Commercial Real Estate Investing: Learn to Buy Real Estate Finance Hawaii Homes & Find Wholesale Real Estate Houses in Hawaii SWIMMING: The Ultimate Guide to Mastering the Four Major Swimming Strokes The Swimming Triangle: A Holistic Approach to Competitive Swimming Teaching Swimming: Teach & Coach Swimming The Swimming Psychology Workbook: How to Use Advanced Sports Psychology to Succeed in the Swimming Pool Swimming: Swimming Made Easy: Beginner and Expert Strategies for Becoming a Better Swimmer Triathlon Swimming Made Easy: The Total Immersion way for anyone to master open-water swimming One Fish Two Fish Red Fish Blue Fish (I Can Read It All by Myself) Poisson Un Poisson Deux Poisson Rouge Poisson Bleu: The French Edition of One Fish Two Fish Red Fish Blue Fish (I Can Read It All by Myself Beginner Books (Hardcover)) One Fish Two Fish Red Fish Blue Fish (Beginner Books(R)) What Pet Should I Get? and One Fish Two Fish Red Fish Blue Fish The Smart Real Estate Investor: Real Estate Book Bundle 2 Manuscripts Expert Strategies on Real Estate Investing, Starting with Little or No Money, Proven Methods for Investing in Real Estate

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