

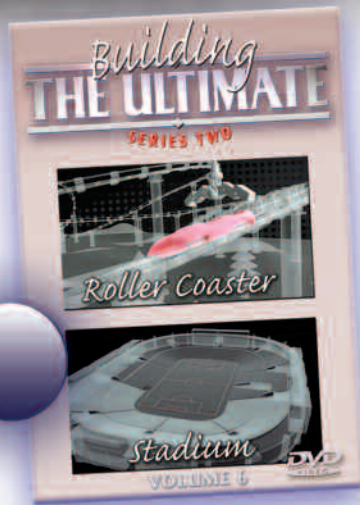
# S C I E N C E

## Building THE ULTIMATE



DVD VIDEO

Our 21st century weapons, buildings, superstructures and vehicles have evolved in the face of often impossible odds. This series looks at our endless quest to build the ultimate and demonstrates how human ingenuity and modern technology have shaped the development of racing cars, roller coasters, aircraft carriers, fighter jets, modern stadiums and gun design.



### Building The Ultimate Volume 2 Suspension Bridge

Graceful and slender, the suspension bridge is the only man-made structure that can span more than 1 mile. With new computer technology, find out what really happened at the infamous Tacoma Narrows collapse of 1940. Interviews with designers of the Humber and the Millennium Bridge explain the enemies engineers face as they seek to build the Indestructible.

#### Spacecraft

A Space Shuttle travels at over 7000 metres per second. With armour that is designed to break and heat shields that are designed to burn, Spacecraft technology is literally 'out of this world'. Using 3D computer images, high speed cameras and microscopic analysis, experts from NASA and the Russian Space Agency explain what is 'rocket science'.

- DVD Format \$88.00 BRD162
- Digital Format \$110.00 BRL558

### Building The Ultimate Volume 3 Tank

A unique combination of firepower, protection, and mobility, the tank dominates the battlefield. Explosive ballistic tests show how tanks have evolved to withstand the weapons pitted against them. Track technology is highlighted with tensile strength tests showing a single track link withstanding a massive 40 tons of weight.

#### Passenger Jet

At any one time over 350,000 people are flying in a passenger jet, yet 50 years ago they didn't exist. To fly at over 500 miles an hour a jet has hollow fan blades in its engine, and in its wings are fuel tanks that are designed to bend. Experts from engineering to ornithology reveal the secret of the jet engine, which flies at 35,000 feet, where there is no air to breathe and the temperature is minus 40 degrees celsius.

- DVD Format \$88.00 BRD163
- Digital Format \$110.00 BRL557

### Building The Ultimate Volume 4 Skyscraper

Designing a 100 storey building is one thing, ensuring it can carry its own massive weight, resist earthquakes or hurricane force winds quite another. Tests show how skyscraper building materials have to withstand extreme forces. And post 9/11 how can these buildings resist a fire on the 87th floor. A revealing insight into a revolutionary new building like Mexico City's Torre Mayor, arguably the world's most earthquake proof structure.

#### Bullet Proof Car

Discreet, yet as safe as a tank. The bullet proof car is constantly changing. While Hitler and Al Capone drove in heavy armoured cars, today they are light, fast and almost impenetrable. But how are new threats changing the bullet proof car today? This program gives an insight into this hidden world and features interviews with the designers and with survivors of bullet proof car attacks.

- DVD Format \$88.00 BRD164
- Digital Format \$110.00 BRL558

A fast paced, fascinating series using a combination of CGI techniques, archive and actual footage to illustrate the challenges and successes of the designers.



14 x 24 minute programs  
Executive Producer Liz McLeod  
©Granada Media

### Building The Ultimate Volume 1 Submarine

Speed, strength, stealth, and power—the submarine is a mean machine. It goes where man cannot. The ocean is its domain. How does a submarine withstand the huge forces of sea pressure? During the Cold War, a submarine's main defence was avoiding detection, so sound, the need to be quiet, plays a key role in trying to make a submarine indestructible.

#### Helicopter

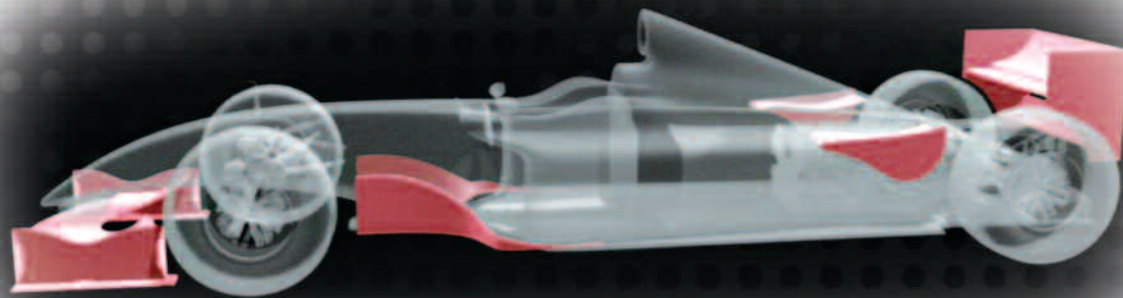
Agile and athletic, the helicopter is the only machine designed to take off vertically and hover. It is the only vehicle to have saved more lives than it has killed. With wind tunnel and chicken gun tests, this program shows the helicopter being pushed to its limit.

- DVD Format \$88.00 BRD161
- Digital Format \$110.00 BRL555



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### Building the Ultimate Volume 5 Racing Car

The Formula 1 car has become the chariot of fire for all those who lust after awesome performance and ultimate power. Engines that cost as much as a house yet wouldn't get you from London to Edinburgh. Cars that are so aerodynamic they could drive upside down on the roof of a tunnel. Driver safety cells that withstand multiple impacts at 250 km per hour. The ultimate racing car would blow up as it crossed the finishing line. And as long as it was the first car over the line, the man who built it would have a smile on his face.

#### Fighter Jet

Today's fighter jets are technological wonders. But it's taken 70 years of evolution to reach a point of near performance perfection. In that time the engine, the shape of the aircraft,



and the cockpit design have been completely revolutionised. Sheer speed was once the engineer's obsession, now agility and control are the new mantras. The 21st century pilot is no longer the dogfighting buccaneer of yesteryear. He's now operating a highly sophisticated airborne weapons system platform.

- DVD Format     \$88.00     BRD172
- Digital Format     \$110.00     BRL559

### Building the Ultimate Volume 6 Roller Coaster

Also known as 'The Incredible Scream Machines', these real life monsters are designed both to excite and to terrify anyone who dares set foot on them. Interviews with eminent coaster designers, historians and enthusiastic riders tell the story of these remarkable feats of engineering from their humble origins in 17th century Russia to the 400 foot monsters that dominate today's skylines. Speeds of over 140 km per hour are made safe by designers understanding and mastering the physics of roller coasters, using G-Forces, Kinetic Energy and Centrifugal Forces as their Weapons of Mass Exhilaration.

#### Stadium

Referred to by many as modern day Cathedrals, these huge structures are becoming icons for the cities they inhabit. The film looks how stadiums have been transformed from lumbering wooden and steel stands that herded spectators in to modern, comfortable and multi-purpose state of the art structures. Interviews with stadium designers, engineers, historians, sports players and fans will trace the history of the stadium from the archetypal Roman Colosseum to the stadiums of the future including what will surely be the most famous stadium in the world - the new Wembley Stadium.

- DVD Format     \$88.00     BRD173
- Digital Format     \$110.00     BRL560

### Building the Ultimate Volume 7 Aircraft Carrier

By 1943 the aircraft carrier had replaced the battleship as the supreme embodiment of naval power. A floating airfield and a small city at sea, at times the carrier has been the largest mobile structure built by man. It took brave men of vision to keep the carrier concept feasible as aircraft became heavier and faster with the introduction of the jet engine. Royal Naval Sea Harrier pilots launch at night from the ski jump that makes fixed wing operations possible on the current fleet of British carriers.

#### Artillery Gun

With explosive, impressive demonstrations and expert interviews, this documentary traces the evolution of propellants, barrels and ammunition to show how the unpredictable, short-range wooden-barrelled medieval cannon evolved into today's ultimate artillery gun.

- DVD Format     \$88.00     BRD174
- Digital Format     \$110.00     BRL561



### Building The Ultimate Series

- DVD Format (7 Discs) \$484.00 BRD176
- Digital Format (7 Discs) \$594.00 BRL554

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