



SPORTS ENGINEERING RESEARCH TEAM THIS BOOK IS PREPARED IN PUBLIC INTEREST BY DEPARTMENT OF SPORTS ENGINEERING SPORTS & MANAGEMENT RESEARCH INSTITUTE (SMRI)

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TECHNOLOGIES THAT CHANGED SPORTING HISTORY



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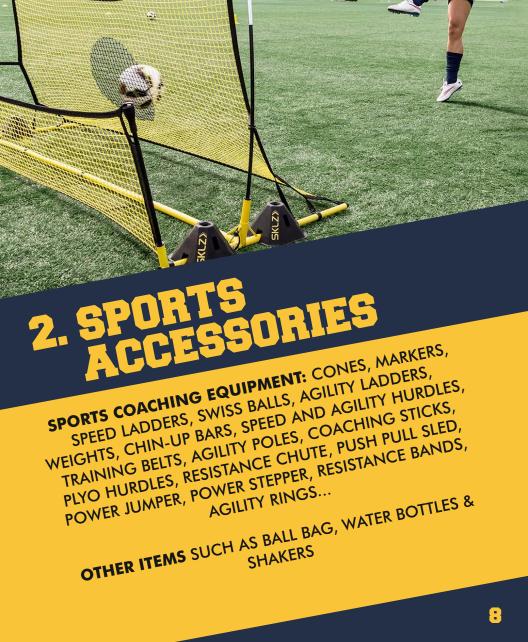
PORTS ENGINEERING IS THE **AGAINTAINIE DESIGNING, MAKING AND MAINTAINIE DIFFERENT SPORTS GOODS, SPORTS DIFFERENT SPORTS GOODS, SPORTS INFRASTRUCTURE AND OTHER SUPPORTS INFRASTRUCTURE AND OTHER SUPPORTS PRODUCTS.** BUT, IN DEEPER SENSE, SPORTS **PRODUCTS.** BUT, IN DE

SPORTS ENGINEERING INCLUDES A WIDE RANGE OF SUBJECTS RELATED TO SPORTS IN ITS WINGS. THE FOLLOWING PAGES WILL GIVE YOU A BRIEF IDEA ABOUT VARIOUS SEGMENTS COMING UNDER THE UMBRELLA SPORTS ENGINEERING.

SEGNERS SEGNERS SEGNERS

GAMING GEARS: BALLS, FLYING DISCS, GOAL POSTS, NETS, RACQUETS, FISHING RODS AND TACKLE, HOCKEY STICKS, BATS, GOLF CLUBS, WICKETS AND BASES, BOARDS FOR SURFING, SKATEBOARDING ETC, SKATES OARDS FOR SURFING AND WATER SKIING AND ICE SKATING, SFOR SKIING AND WATER SKIING, DIFFERENT SHOES KAYAKS, JAVELIN... IROTECTIVE GEARS: FOOTBALL HELMET, JOCK STAR, MOUTH GUARDS, SHIN PADS, SKI SUITS, ELBOW PADS, SHOULDER PADS, BICYCLE HELMET, SPORTS GLOVES...

1. SPORTS GEAR



3. TURF EQUIPMENT DIFFERENT EQUIPMENT TO PREPARE SPORTS FIELD SUCH

AS MOWERS, AERATORS, BUNKERS, FIELD RAKES, TOP DRESSING EQUIPMENT, TRACTORS, ROLLERS, LINE MARKING EQUIPMENT, VACUUM SWEEPERS, VERTICUTTERS, BLOWERS, SPRAYERS, DRAG MATS,

A SPORTS APPARELS INCLUDE TRACKSUITS TYPICAL SPORTS APPARELS INCLUDE TRACKSUITS DE TRAVIERS AND POLO SHIRTS. SPECIALIZED

TYPICAL SPORTS APPARELS INCLUDE TRACKSUITS, SHORTS, T-SHIRTS AND POLO SHIRTS. SPECIALIZED APPARELS INCLUDE SWIMSUITS (FOR SWIMMING), WEI SUITS (FOR DIVING OR SURFING), SKI SUITS (FOR SUITS (FOR DIVING OR SURFING), SKI SUITS (FOR SKIING) AND LEOTARDS (FOR GYMNASTICS). SPORTS FOOTWEAR INCLUDE TRAINERS, FOOTBALL BOOTS, RIDING BOOTS, AND ICE SKATES. SPORTSWEAR ALSO INCLUDES BIKINI AND SOME CROP TOPS AND INCLUDES BIKINI AND SOME CROP TOPS AND UNDERGARMENTS, SUCH AS THE JOCKSTRAP AND SPORTS BRA.

IIIPM DUMBBELLS, KETTLEBELLS, BARBELLS, WEIGHT PLATES, COLLARS, WEIGHT MACHINES, CABLES, ROWERS, HEAD/NECK HARNESS, ELASTIC BANDS(RESISTANCE BANDS), CHAINS, SLING SHOTS, SHOES, BELTS, FITNESS BALLS, BARS, TREADMILLS, EXERCISE BIKES, ELLIPTICAL TRAINERS, STEP MACHINES, BENCHES, VIBRATORS,

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BARKS & PLAYGROUND EQUIPMENT SUCH AS SEEAWI PARKS & PLAYGROUND EQUIPMENT SUCH AS SEEAWI, ROPE BRIDGE, CLIMBERS, PLAYHOUSE, PLAY SUCH AS SEEAWI, ININGS, SLIDES, MOTION SPINNERS, TRAILS, ZORBING BUIL, JUMPING BOUNCER, REVOLVING PLAYED BUILT AND PLAYED AND PLAYED AND PLAYED AND PLAYED BUILT AND PLAYED AND PLA

7. AMUSEMENT PARKS PLAY SYSTEMS, SWINGS, SLIDES, MOTION SPINNERS,

CLIMBERS, TRAILS, ROLLER COASTERS, CIRCULAR RIDES, FAMILY RIDES, TRANSPORTATION RIDES, WATER RIDES, EXTREME THRILL RIDES, DARK RIDES, KIDDIE RIDES ...

BACING SALE AND ACROBATIC FORMENTS, BALANCE LANDERS, NARIOUS EQUIPMENT USED FOR CIRCUS PERFORMARE, UCH AS ACROBATIC EQUIPMENTS, BALANCE LANDERS, NOLLA BOLLA, MINI CYCLES, SLACK LIVES, TRICK LIVES, REIAL LYRA HOOP, JUGGLING CLUBS, AERIAL TRAPE BAR, POGO STICK, DRAGON CANE, HANDG STICK BAR, POGO STICK, DRAGON CANE, HANDES AND LIGGLING BALLS AND ACROBATIC EQUIPMENTS JUGGLING BALLS AND ACROBATIC EQUIPMENTS

9. SPORTS BROADCASTING DIFFERENT EQUIPMENT FOR SPORTS BROADCASTING SUCH AS CAMERAS, AUDIO MIXTURES, MICROPHONES, VIDEO SWITCHERS, REPLAY SYSTEMS, GRAPHICS GENERATORS, TELEPROMPTERS, HEADSETS, INTERCOMS, WIRELESS, PORTABLE FILED MONITORS, EDITING

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BASKETBALL

10. SPORTS INFRASTRUCTURE

STADIUM, PLAYGROUNDS, GOLF COURSE, SWIMMING POOLS, SPORTS TRACKS, ARENA, BANDY FIELD, BASEBALL PARK, BILLIARD HALL, BULLRING, GYM, HORSE RACING VENUES (HIPPODROME), ICE HOCKEY ARENA, NOTORSPORT VENUES (AUTODROME), SHOOTING RANGE, SPEED SKATING RINK, VELODROME

11. SPORTS FLOORING UNITED OF THE

DIFFERENT TYPE OF MATERIALS SPORT FLOORING SUCH AS NATURAL GRASS, ARTIFICIAL GRASS, ASTRO TURF, SYNTHETIC (POLYURETHANE ATHLETIC FLOORING, WOOD, RUBBER, ACRYLIC, CLAY, CONCRETE AND MAPLE HARDWOOD.

DESIGNING, IMPLEMENTING AND MAINTAINING LIGHTENING SYSTEM BASED ON THE REQUIREMENT DIFFERENT GAMES AND DIFFERENT LOCATIONS.

12. SPORTS LIGHTING

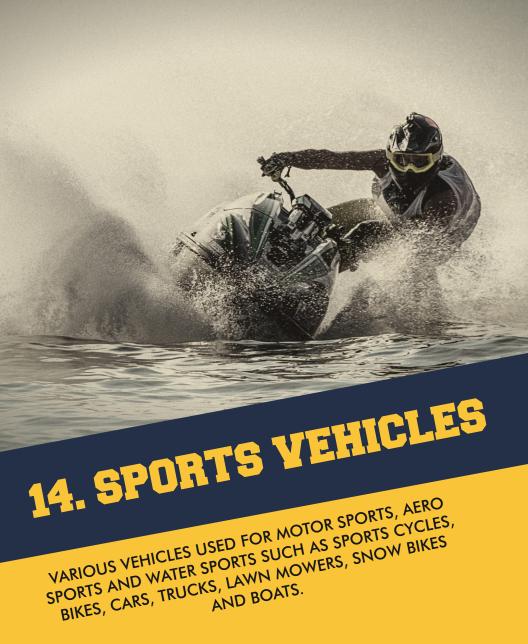








GAMES AND DIFFERENT LOCATIONS.



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VARIOUS TECHNOLOGY USED IN TERESTING SUCHAR SPORTS MORE ACCURATE AND INTERESTING SUCHAR TIMING SOLUTIONS, HAWKEYE TECHNOLOGY, HOTSPOT, GOAL LINE TECHNOLOGY, WAGON WHEEL, OF TECHNOLOGY, WAGON WHEEL, HOTO FINISH, RFID CHIPS, HANS DEVICE, SNICK-O-METER, SPIDER CAM, VANISHING SPRAY, METER, SPIDER CAM, VANISHING SPRAY, BIOMECHANICAL ANALYSIS AND AUTO LIGHTING SYSTEM



IDENTIFY AND AND PLAY THINGS INCLUDING MONTESSORI TOYS, CONSTRUCTION TOYS, NCLUDING MONTESSORI TOYS, CONSTRUCTION TOYS, NCLUDING AMING BOARDS, PLAYING CARDS, KITCHEN DIZZLES, GAMING BOARDS, PLAYING CARDS, KITCHEN TOYS, RUBIK'S CUBE, REMOTE CONTROL TOYS,

DIFFERENT TYPE OF SEATS USING IN SPORTS AREAS INCLUDING BLEACHERS AND BENCHES, AND STYLE OF SEATS SUCH AS FLOOR MOUNTED, RISER MOUNTED, TIER MOUNTED, FOLDING SEATS, RETRACTABLE SEATS...

194 17. SPORTS SEATING





EXAMPLE A CONTRACTION OF A CONTRACT OF A CON

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