
Sachverzeichnis¹

A

a3 ms (3 ms Kriterium), 75
ADFS (average distal forearm speed), 205
Airbag, 82, 83, 111, 142, 145, 165, 192, 201
AIS (abbreviated injury scale), 26, 95, 136, 150, 160, 175
Alter, 3, 35, 107, 134, 138, 149, 161, 174, 188, 191, 201, 202, 225
APF (abdominal peak force), 165
Aviatik, 39, 104

B

BABT (behind armour blunt trauma), 235, 240
Biomechanik, 34, 77, 141, 182
biomechanisches Verhalten, 161
Bowen-Kurve, 252, 253, 255
Brisanz, 243
BTD (blast test device), 253

C

C (compression criterion), 150
Computersimulation, 32, 53, 85
Crashtest-Dummy, 43, 46
 BioRID, 51
 BioSID, 49
 CRABI, 52
 Euro-SID, 49
 Hybrid III, 46
 POLAR, 52
 RID, 51
 SID, 49
 THOR, 48
 TNO-10, 51

World-SID, 49
CTI (combined thoracic index), 151

D

DAI (diffuse axonal injury), 65, 81
Deflagration, 242
Degeneration, 107, 191
Detonation, 242, 255, 257

E

ECE, 38, 41
 ECE R12, 52
 ECE R21, 75
 ECE R22, 75
 ECE R25, 75
 ECE R44, 165
 ECE R94, 38, 39, 75, 115, 151, 152, 186, 187
 ECE R95, 38, 39, 49, 75, 151, 152, 165, 187
EES (energy equivalent speed), 31
Epidemiologie, 17
Ermüdungsfraktur, 188, 191, 223

F

FFC (femur force criterion), 186
Finite Elemente (FE) Methode, 22, 33, 54
FMH (free motion head form), 38, 52
FMVSS, 38, 42
 FMVSS 201, 52, 75
 FMVSS 208, 39, 73, 75, 110, 115, 149, 152, 182, 186
 FMVSS 214, 39, 49, 150
Football (American Football), 78, 119, 120, 189, 207

¹ Anatomische Begriffe und spezifische Verletzungen werden in den einzelnen Kapiteln erläutert.

Frontalkollision, 43, 48, 97, 102, 115, 141, 174, 179, 187

Full-Scale Test, 36

Fussball, 81, 166, 189

Fussgänger, 83, 178, 192

G

GAMBIT, 75

GCS (Glasgow Coma Scale), 28

Geschwindigkeitsänderung (delta-v), 31

H

Hartballistik, 236, 256

HE (high explosives), 243

Heckkollision, 50, 98

Helm, 78, 82, 235

HIC (head injury criterion), 73, 78

HPC (head protection criterion), 75

I

IED (improvised explosive device), 241, 249, 257

IPR (injury priority rating), 174

IRAV (injury assessment reference value), 52

ISS (injury severity score), 27

IV-NIC, 115

K

Kavität, 232

Kinder, 4, 35, 52, 161, 165, 224

Knienpolster, 192

Kollisionsgeschwindigkeit, 30

Kopfstütze, 122

L

LNL (lower neck loadcell index), 114

M

Mach-Welle, 249

Masse, effektive, 81, 210

Mehrkörpermodell, 53

Mikrotrauma, 4, 222

mTBI (mild traumatic brain injury), 65, 77, 78, 255

N

NCAP (New Car Assessment Programme), 40

EuroNCAP, 40, 45, 108, 114, 185

NDC (neck displacement criterion), 116

NIC (neck injury criterion), 109

NIJ Standard (Ballistik), 238, 240

Nij-Kriterium, 110

NISS (new injury severity score), 28

Nkm-Kriterium, 111

P

Padding (Polsterung), 81

PBI (primary blast injury), 250, 254

Perturbation, 244

PPE (personal protective equipment), 235

Prävention, 6, 34, 81, 120, 224, 256, 258

Prävention, 210

Protektor, 191, 210, 235, 236, 239

PSPF (pubic symphysis peak force), 187

Q

QTF (Quebec Task Force), 28, 100

R

Rückhaltesystem, 11, 36, 73, 82, 174

RAID (research arm injury device), 206

RDC (rib deflection criterion), 152

Rebound, 101, 121

Rehabilitation, 6, 187, 210, 220

Risikofunktion, 28, 74, 150

RSI (repetitive strain injury), 217, 223

S

SBI (secondary blast injury), 256

Schneesport, 120, 189, 209

Schwangere, 165

Seitenkollision, 40, 44, 49, 146, 201, 202

Sekundäranprall, 85

SI (Severity Index), 71, 73

Sicherheitsgurt, 12, 82, 102, 121, 142, 144, 145, 165, 202

Sitz (Fahrzeugsitz), 120, 165, 218

Spallation, 238, 244

Starrkörper, 21, 32, 53

Stossrohr, 253

Stosswelle, 246

Stosszahl, 31

T

TBI (tertiary blast injury), 257
TCFC (tibia compression force criterion), 186
ThCC (thoracic compression criterion), 152
THOR, 73
THUMS, 55
TI (tibia index), 186
TNT-Äquivalent, 241, 248
TTI (thoracic trauma index), 149

U

Unfallrekonstruktion, 29
Überlastungssyndrom, 166, 208, 209, 217, 222

V

VC (viscous criterion), 150
Verhalten, biomechanisches, 34, 78, 103, 141,
182, 203
Verletzungskriterium, 26

W

Wayne State Tolerance Curve, 69, 73
Weichballistik, 235, 256
WIC (whiplash injury criterion), 117
Wundballistik, 6, 230, 232